# Faculty Development Programme on Internet of Things: Education Canvas

**(09th November to 20th November, 2019)**

**Sponsored by**
**All India Council for Technical Education, New Delhi**



**Course Coordinator**
**Prof. (Dr.) Anil Chaudhary**
**Professor & Head, Department of Information Technology**



**Organized by**
**Department of Information Technology (NBA Accredited)**
**Swami Keshvanand Institute of Technology, Management &Gramothan,**
**Jaipur, Rajasthan India – 302017**

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## Table of Contents

## 1. About SKIT :-

 Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today the Institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to Rajasthan Technical University, Kota for offering Postgraduate and Graduate Courses in Engineering and Management. Our sister institution Swami Keshvanand Institute of Pharmacy (SKIP) is affiliated to Rajasthan University of Health Sciences for offering Graduate Course in Pharmacy.

 Located in the Pink City Jaipur, which is a blend of traditional history and modern outlook, SKIT is putting in efforts for making industry ready engineers and managers through effective Industry –Institute Interface. Apart from University curriculum SKIT also pursues activities for research and development in various fields.

The green landscaping, aesthetic elegance of arches and the vibrant pursuit of knowledge by the young aspirants make the environment serene, pleasant and dynamic.

 Students joining the institute share the box full of opportunities for professional and personal development through an environment of practical orientation, industrial interaction and student led activities which help the students to develop good communication skills, integrated personality and greater competitive spirit.

## Our Inspiration

 "Mass illiteracy is the root cause behind backwardness of India. If we want speedy progress of nation we need to root it out as early as possible."– Swami Keshvanand

Swami Keshvanand, an orphan, illiterate, nomadic man who never received formal education, was the founder of more than 300 schools, 50 hostels and innumerable libraries, social service centers and museums.Swami Keshvanand had a deep understanding of the rural society of the desert region .He had explained the peculiarities of the desert region, identified the problems and suggested appropriate and logical solutions. It was Swami Keshvanand's lifelong endeavour to eradicate social evils like untouchability, illiteracy, child marriage, indebtedness, poverty, backwardness, alcohol abuse, moral dissipation etc.

## Vision

 To promote higher learning in advanced technology and industrial research to make our country a global player

## Mission

 To promote quality education, training and research in the field of Engineering by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

### Quality Policy

 We are committed to 'achievement of quality' as an integral part of our institutional policy by continuous self-evaluation and striving to improve ourselves.
 Institute would pursue quality in

• All its endeavours like admissions, teaching- learning processes, examinations, extra and co-curricular activities, industry institution interaction, research & development, continuing education, and consultancy.

• Functional areas like teaching departments, Training & Placement Cell, library, administrative office, accounts office, hostels, canteen, security services, transport, maintenance section and all other services."

## 2. Introduction to FDP:-

This Programme is designed to provide the state of the art trends and advancements in Internet of Things in Educational Canvas. The Programme will focus on theoretical aspects as well as on providing hands on experience to the participants, who enable themselves to promote industry and institute collaborations by working on the industrial projects and able to solve the current research problems. The participants will be introduced to fundamentals of Internet of Things and develop the understanding of how to use embedded & wireless hardware and programming skills to realize an IoT application. The participant will be trained with hands-on approach in order to have an in-depth insight into the domain of IoT and expose them to future of Internet of Things in Educational Canvas.

## 3. Programme Objectives

**To Provide Exposure to IoT Tools and Techniques to Enhance the Teaching and Research Skills:**
1. To form a bridge between the industry and academic institutions to update their knowledge.
2. To understand the need of IoT in the research community and the software industry in India.
3. To appreciate the differences among Big Data, Cloud Computing and IoT.
4. To understand the need of innovative applications, such as Smart City, Smart Health, Smart Manufacturing, Smart Agriculture, etc.
5. To train the participants on how to design and program the IoT based system.

## 4. Course content:-
1. Introduction to IoT, Current products, IoT for Open source electronics, IoT Languages and its Tools.
2. Communication Protocols, Interconnections, System. Design and Development, Latest Sensors and Actuators.
3. Introduction to Embedded Systems.
4. Real Time Operating Systems.
5. Raspberry Pi Architecture.
6. FPGA &SoC Based Embedded Systems Designs
7. IoT Cloud, Image Processing Applications in IoT.
8. Data Management and Big Data Analytics in IoT.
9. Research Issues and Case Studies in IoT. Hands-on training sessions will be provided with demos on real-time applications.
10. Socket Programming, MQTT Protocol.
11. E-mail Controlled Home Automation.
12. Node Red over IBM Bluemix.

13. Hardware and Software Co-Design.

## 5. Speaker of FDP:-

- Dr. Mani Madhukar, Program Manager - University Relations, IBM India Pvt. Ltd.
- Mr. IshanVaid, Subject Matter Expert, IBM India Pvt. Ltd.
- Mr. PeeyushMaharshi, Principal Consultant from Infosys.
- Mr. Kartavya Jain, CEO, Jainson Corp, Jaipur.
- Dr. Basant Agarwal, Assistant Professor, Department of Computer Science & Engineering, Indian Institute of Information Technology, Kota.
- Dr. Poonam Gera, Assistant Professor, Department of Computer Science & Engineering, The LNM Institute of Information Technology (LNMIIT), Jaipur.
- Mr. Devesh Kumar Mathur,Cyber Security Practice,Tata Consultancy Services.
- Mr. SombabuGunithi, Technical Manager, Einfochips, India.
- Dr. Pramod Gaur, Assistant Professor, Department of Computer Science & Engineering, The LNM Institute of Information Technology (LNMIIT), Jaipur.
- Dr. Anil Chaudhary, Professor, Department of Information Technology, SKIT, Jaipur.
- Mr. Ankit Kumar, Assistant Professor, Department of Computer Science & Engineering, SKIT, Jaipur.

## 6. Eligibility for FDP:-

Faculty members working in AICTE approved Institutions / Colleges are eligible for the programme.

## 7. Duration and Venue:-

The FDP will be conducted on 09th November to 20thNovember, 2019 at IAI Lab, SKIT. This FDP will be conducted through an expert lecturer and hands-on sessions using IoT lab.

## 8. Criteria for Certification:-

A certificate to the participants will be issued on successful completion of the Faculty Development Programme

## 9. Course Fee:-

Registration fee will be Rs. 3000/- (Refundable, after Successful completion of FDP). The Registration fee can be paid through online transfer or DD in favor of ("SKIT, Jaipur") payable at Jaipur .

Electronic (Online) Fund Transfer Details

| Bank Name | : | Kotak Mahindra Bank |
|---|---|---|
| Account Name | : | SKIT EMPLOYEES WELFARE SOCIETY |
| Account Number | : | 4711940396 |
| Account Type | : | SAVING ACCOUNT |
| IFSC Code | : | KKBK0003538 |

## 10. How to Apply:-

Application in the attached format should reach to the Programme Coordinator on or before 03$^{rd}$ November, 2019. For early confirmation, please mail the scanned copy of filled registration form to fdpit@skit.ac.in

## 11. Address for Communication:-

Department of Information Technology, Swami Keshvanand Institute of Technology, Management &Gramothan (SKIT), Ramnagaria, Jagatpura, Jaipur-302017

Email : fdpit@skit.ac.in
Phone:+91-141-2752165, 5160400 Ext: 284
Website: www.skit.ac.in/fdpit2019

## 12. Brochure by SKIT:-

### Contact Details:

**Course Coordinator**

Prof. (Dr.) Anil Chaudhary (HOD-IT)

Ph. No. 0141-5160400 (Ext: 286)

**Course Secretary**

Dr. Mukesh Kumar Gupta

Professor, Mob: 9772545766

Dr. Pankaj Dadheech    Mr. Ankit Kumar

Associate Professor      Assistant Professor

Mob: 9887708973      Mob: 9057836398

### E-Mail your Registration Form to:

FDP-2019

Department of Information Technology, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Ramnagaria, Jagatpura, Jaipur-302017

Email : fdpit@skit.ac.in

Phone:+91-141-2752165, 5160400 Ext: 284

Website: www.skit.ac.in/fdpit2019

### Department of Information Technology

The Department of Information Technology was established in 2000. The Department offers Undergraduate Programme in Information Technology. The Major Areas of Research in the Department are Data Analytics, Big Data Analytics, Cloud Computing and Virtualization, Security, Compilers and Programming languages, Computer Architecture, Bioinformatics and Theoretical Computer Science. The Department has Several Research Labs and Laboratories with state of the art Computing facilities. Constantly Modernization of facilities helps the Department to adapt itself to the rapidly changing Technological Scenario.

### About SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) is a selective comprehensive institution offering undergraduate and postgraduate programmes in Engineering and Management. The institute was established in the year 2000 by a team of committed professionals and academicians. During all the past years SKIT has emerged as a Premier Centre of Technical Education not only in Rajasthan but also in northern India which has been realized through efficient and dedicated faculty members, innovative teaching-learning methods, state of art infrastructure and core value of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA).

### About Jaipur

The world famous 'PINK CITY', the capital of the Rajasthan state founded in 1727 AD by Sawai Jai Singh II is one of the most popular tourist destinations. It has a rich culture heritage and many important historical places viz. Amber Fort, Jaigarh Fort, Nahargarh Fort, City Palace, Albert Hall Museum, Jantar-Mantar, Govind-Dev Ji Temple, and Birla Mandir. Jaipur is also famous for its handloom & handicraft, and proves a heaven for shopping and enjoyment, This fascinating city with its romantic charm takes you to an epoch of royalty and tradition.

## Faculty Development Programme
### on
## Internet of Things: Education Canvas

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Swami Keshvanand Institute of Technology, Management & Gramothan , Jaipur – 302017

### Course Coordinator

**Prof. (Dr.) Anil Chaudhary**

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## About the Programme

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3. To appreciate the differences among Big Data, Cloud Computing and IoT.
4. To understand the need of innovative applications, such as Smart City, Smart Health, Smart Manufacturing, Smart Agriculture, etc.
5. To train the participants on how to design and program the IoT based system.

## The Topics to be Covered Include

1. Introduction to IoT, Current products, IoT for Open source electronics, IoT Languages and its Tools.
2. Communication Protocols, Interconnections, System. Design and Development, Latest Sensors and Actuators.
3. Introduction to Embedded Systems.
4. Real Time Operating Systems.
5. Raspberry Pi Architecture.
6. FPGA & SoC Based Embedded Systems Designs
7. IoT Cloud, Image Processing Applications in IoT.
8. Data Management and Big Data Analytics in IoT.
9. Research Issues and Case Studies in IoT. Hands-on training sessions will be provided with demos on real-time applications.
10. Socket Programming, MQTT Protocol.
11. E-mail Controlled Home Automation.
12. Node Red over IBM Bluemix.
13. Hardware and Software Co-Design.

## Resource Persons

Resource Person (s) are experienced faculty Members from IIT Bombay, JNU Delhi, IIT Delhi, MNIT Jaipur, SKIT Jaipur, RTU Kota, and experts from IBM India, Infosys Ltd. and other R &D laboratories.

## Eligibility

Faculty members working in AICTE approved Institutions / Colleges are eligible for the programme.

## Transport, Boarding & Lodging

TA to out-station participants (Max. by AC 3-tier by shortest train route) on the production of a copy ticket(s) will be provided. The boarding and lodging facility will be provided to the participants who are from outside Jaipur.

## Registration Fee

Registration fee will be Rs. 3000/- (**Refundable, after Successful completion of FDP**). The Registration fee can be paid through online transfer or DD in favor of ("**SKIT, Jaipur**") payable at Jaipur .

### Electronic (Online) Fund Transfer Details

| | |
|---|---|
| Bank Name | Kotak Mahindra Bank |
| Account Name | SKIT EMPLOYEES WELFARE SOCIETY |
| Account Number | 4711940396 |
| Account Type | SAVING ACCOUNT |
| IFSC Code | KKBK0003538 |

## Selection

The number of Participants is limited to 50 and participants will be selected on the first-come, first-served basis. The selected candidates will be intimated through e-mail only.

## How to Apply

Application in the attached format should reach to the Programme Coordinator on or before 03rd November, 2019. For early confirmation, please mail the scanned copy of filled registration form to fdpit@skit.ac.in.

## Certificate

A certificate to the participants will be issued on successful completion of the Faculty Development Programme.

## Key dates

Last Date for Receipt of Application: 03th November, 2019.
Intimation of Selection: Within seven days of Application.
Commencement of the Programme: 09th November, 2019.

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## FDP REGISTRATION FORM

# Internet of Things: Education Canvas

(09th November to 20th November, 2019)

1. Name...........................................................

2. Designation...................................................

3. Qualifications................................................

3. Department....................................................

4. Organization .................................................

5. Mobile........................................................

6. E-mail........................................................

8 Payment Details:-

Amount:..................(Online/DD) Date:.....................

DD/Transaction No:.............................................

Sender's Account Number........................................

( For Online Transaction )

IFSC code .....................................................

Signature of Applicant

## 13. List of Registered Participants:-

Total number of registered participants: - 78
Total number of confirmed registration: - 78

| S N | Name of Participant | Gender | Participant 's Mobile | Email ID | Name of College, City |
|---|---|---|---|---|---|
| 1 | Mr. Manish P. Bhelande | Male | 9619157881 | manish.bhelande@sakec.ac.in | Shah and Anchor Kutchhi Engineering College, Mumbai |
| 2 | Ms. Bhargavi B. Dalal | Female | 9819501957 | bhargavi.dalal@sakec.ac.in | Shah and Anchor Kutchhi Engineering College, Mumbai |
| 3 | Ms. Chhaya Narvekar | Female | 8097181363 | chhaya.n@xavierengg.com, narvekarchhaya@gmail.com | Xavier Institute of Engineering, Mahim, Mumbai |
| 4 | Dr. Vikas J. Dongre | Male | 9370668979 | dongrevj1@gmail.com | Government Polytechnic Washm, Maharashtra |
| 5 | Ms. Sushama Khanvilkar | Female | 9930071534 | sushama.k@xavierengg.com | Xavier Institute of Engineering, Mahim, Mumbai |
| 6 | Dr. Sukhwinder Sharma | Male | 9914303090 | sukhwinder.sharma@bbsbec.ac.in | B.B.S.B. Engineering College, Fatehgarh Sahib, Punjab |
| 7 | Prof. Ajit S. Patil | Male | 9404990967 | ajitspatil@gmail.com | KIT's College of Engineering, Kolhapur, Maharashtra |
| 8 | Mr. Tanaji Bhauso Patil | Male | 9422811585 | patiltanaji@gmail.com | KIT's College of Engineering, Kolhapur, Maharashtra |
| 9 | Mr. Vadali Srinivas | Male | 9296956735, 9666161697 | cnu.vadali@kietgroup.com, cnu.vadali@gmail.com | Kakinada Institute of Engineering & Technology, Corangi, Andhra Pradesh |
| 10 | Er. Deepak Aggarwal | Male | 9855525215 | deepak.aggarwal@bbsbec.ac.in | B.B.S.B. Engineering College, Fatehgarh Sahib, Punjab |
| 11 | Dr. Raj Kumar Goel | Male | 7011788700 | raj9921@yahoo.com | Noida Institute of Engineering Technology, Greater Noida, UP |

| 12 | Dr. Rajesh Reddy Eswarawaka | Male | 9553202023 | rajesheminent@gmail.com | Sreyas Institute of Engineering & Technology, Hyderabad, Telangana |
|----|----|----|----|----|----|
| 13 | Mr. Vijaykumar Selvam | Male | 9894209455 | indianid@gmail.com | Bharathidasan University, Tiruchirappalli, Tamil Nadu |
| 14 | Mr. Narendrasinh B. Gohil | Male | 9974617967 | nbgohil1@gmail.com | Shantilal Shah Engineering College, Bhavnagar, Gujarat |
| 15 | Mr. K. Venkataguruatha Naidu | Male | 9030264588 | venkatspmvv@gmail.com | Sri Padmavati Mahila Visvavidyalayam, Tirupati, Andhra Pradesh |
| 16 | Dr. S. Rajasoundaran | Male | 9025678818 | rajasoundaransraja@gmail.com | P.S.R. Engineering College, Sivakasi, Tamil Nadu |
| 17 | Mr. P. Raghavan | Male | 9994524770 | raghavan@psr.edu.in | P.S.R. Engineering College, Sivakasi, Tamil Nadu |
| 18 | Dr. Pooja Sapra | Female | 9582888389 | dr.poojasapra@gmail.com | World College of Technology and Management Gurugram |
| 19 | Dr. Manju Khari | Female | 9899296110 | manjukhari@aiactr.ac.in | Ambedkar Institute of Advanced Communication Technologies & Research, Delhi |
| 20 | Mr. Kshatriya Krishna kumar V. | Male | 9725933996 | hod.electrical@amirajcollege.in | Amiraj College of Engineering and Technology, Ahmedabad, Gujarat |
| 21 | Mr. K. Vijaya Kumar | Male | 8012897091 | kvijayakumar@pec.edu | Karaikal Polytechnic College, Karaikal, Puducherry |
| 22 | Dr. Garima Srivastava | Female | 8800916945, 7982655724 | garima.shrivastav@gmail.com | Ambedkar Institute of Advanced Communication Technologies & Research, Delhi |

| 23 | Mrs. G. Mangaiyarkarasi | Female | 9952286644 | mangaimca2006@gmail.com | K.S.Rangasamy College (Autonomous), Tiruchengode, TamilNadu |
|----|----|----|----|----|----|
| 24 | Dr. Avinash Sharma | Male | 8529286980 | asharma@mmumullana.org | Maharishi Markandeshwar Engineering College, Ambala, Haryana |
| 25 | Mr. Krishan Kumar Prajapat | Male | 9414292624 | kkprajapat@gmail.com | Government Polytechnic College, Sikar |
| 26 | Mr. Kalu Ram Yadav | Male | 9414624536 | kr_yadav1@rediffmail.com | Government Polytechnic College, Kota |
| 27 | Dr. Dinesh Goyal | Male | 9887678379 | dinesh8dg@gmail.com | Poornima Institute of Engineering & Technology, Jaipur |
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| 30 | Dr. Vijander Singh | Male | 9414459235 | vijan2005@gmail.com | Manipal University Jaipur, Rajasthan |
| 31 | Dr. Mukesh Arora | Male | 9829630099 | mukesharora@skit.ac.in | SKIT, Jaipur |
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| 36 | Mrs. Priyanka | Female | 7014475008 | trikhapriyanka@gmail.com | SKIT,Jaipur |

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|---|---|---|---|---|---|
| 38 | Dr. S. R. Dogiwal | Male | 9829239060 | dogiwal@gmail.com | SKIT,Jaipur |
| 39 | Mr. Ankit Kumar | Male | 9057836398 | iiita.ankit@gmail.com | SKIT,Jaipur |
| 40 | Mr. Kailash Soni | Male | 9460066186 | kailash100ni.er@gmail.com | SKIT,Jaipur |
| 41 | Mr. Naveen Jain | Male | 9928795887 | naveen@skit.ac.in | SKIT,Jaipur |
| 42 | Mr. Vipin Jain | Male | 7665028925 | vipin@skit.ac.in | SKIT,Jaipur |
| 43 | Ms. Neha Mathur | Female | 9460553722 | nmdoll@gmail.com | SKIT,Jaipur |
| 44 | Mr. Harpreet Singh Gill | Male | 9462694625 | harpreet@skit.ac.in | SKIT,Jaipur |
| 45 | Ms. Rubal Deep Gill | Female | 9887441103 | rubal@skit.ac.in | SKIT,Jaipur |
| 46 | Ms. Anjali Pandey | Female | 9414330982 | njl27pandey@gmail.com | SKIT,Jaipur |
| 47 | Ms. Dolly Mittal | Female | 9829408543 | dolly5987@gmail.com | SKIT,Jaipur |
| 48 | Ms. Nikhar Bhatnagar | Female | 8875027276 | nikharbhatnagar@gmail.com | SKIT,Jaipur |
| 49 | Ms. Palika Jajoo | Female | 9414499507 | palikajajoo@gmail.com | SKIT,Jaipur |
| 50 | Ms. Priyanka Sharma | Female | 8890606912 | priyanka08291@gmail.com | SKIT,Jaipur |
| 51 | Ms. Shalini Singhal | Female | 8952979529 | singhalshalini570@gmail.com | SKIT,Jaipur |
| 52 | Dr. Sunita Gupta | Female | 9828510686 | drsunitagupta2016@gmail.com | SKIT,Jaipur |
| 53 | Ms. Nidhi Srivastava | Female | 9079925707 | nidhi03.srivastav@gmail.com | SKIT,Jaipur |
| 54 | Ms. Anshika Malsaria | Female | 9828128665 | anshika1987@gmail.com | SKIT,Jaipur |

| 55 | Mr. Neeraj Garg | Male | 7665523458 | ng23neeraj.garg@gmail.com | SKIT,Jaipur |
|---|---|---|---|---|---|
| 56 | Mr. Kanak Giri | Male | 9413402383 | kanakgiri88@gmail.com | SKIT,Jaipur |
| 57 | Mr. Yogendra Gupta | Male | 9468739571 | yogen.571@gmail.com | SKIT,Jaipur |
| 58 | Mr. Sushant Kumar | Male | 7229935038 | skybvi@gmail.com | SKIT,Jaipur |
| 59 | Ms. Richa Rawal | Female | 9413080805 | richarawal23@gmail.com | SKIT,Jaipur |
| 60 | Ms. Sanju Choudhary | Female | 9983918945 | binda.sanju@gmail.com | SKIT,Jaipur |
| 61 | Ms. Poonam Varshney | Female | 9413238729 | varshney.poonam@gmail.com | SKIT,Jaipur |
| 62 | Dr. Niketa Sharma | Female | 7014128907 | niketa.eca@gmail.com | SKIT,Jaipur |
| 63 | Ms. Ruchika Khandelwal | Female | 9828124477 | ruchikakhandelwal77@gmail.com | SKIT,Jaipur |
| 64 | Ms. Kajal Mathur | Female | 9461400822 | kaju.mathur@gmail.com | SKIT,Jaipur |
| 65 | Dr. Neha Janu | Female | 9414438907 | neha123jaipur@gmail.com | SKIT,Jaipur |
| 66 | Ms. Sushila Bishnoi | Female | 9214419555 | bishnoisush@gmail.com | SKIT,Jaipur |
| 67 | Mr. Ajay Kumar Dhanopia | Male | 9928909235 | ajaydhanopia123@gmail.com | SKIT,Jaipur |
| 68 | Ms. Poonam Rajharia | Female | 6378709334 | poonam.rajharia@vgu.ac.in | Vivekananda Global University, Jaipur |
| 69 | Ms. Pooja Choudhary | Female | 8875140140 | poojachoudhary87@gmail.com | SKIT,Jaipur |
| 70 | Mr. Sandeep Bhargava | Male | 8118864109 | eng.san.83.sandy@gmail.com | Poornima College of Engineering, Jaipur |
| 71 | Ms. Manju Choudhary | Female | 9694724109 | manjuchoudhary_mec@yahoo.co.in | SKIT,Jaipur |
| 72 | Mr. Ankit Agrawal | Male | 7877556914 | ankitsagarwal@gmail.com | SKIT,Jaipur |

| 73 | Dr. Praveen Kumar Jain | Male | 9928652224 | praveenjain.spsl@gmail.com | SKIT,Jaipur |
|----|------------------------|------|------------|-----------------------------|-------------|
| 74 | Ms. PoojaJain | Female | 9785050506 | poojajain624@gmail.com | SKIT,Jaipur |
| 75 | Ms. Kavita Jain | Female | 9461011668 | kjkavitajain.21@gmail.com | SKIT,Jaipur |
| 76 | Ms. Vijeta Khicha | Female | 9509309701 | vijetakhicha@skit.ac.in | SKIT,Jaipur |
| 77 | Mr. Mehu lMahrishi | Male | 7597924279 | mehul.aqua@gmail.com | SKIT,Jaipur |
| 78 | Mr. Gajanand Sharma | Male | 9887566000 | gajanan.sharma@gmail.com | JECRC University, Jaipur |

## 14. Invitation letter

# Invitation Letter

## DEPARTMENT OF INFORMATION TECHNOLOGY
### (NBA ACCREDITED)

Cordially invite you in the

*Inaugural Ceremony*

of

*AICTE Sponsored Two Week Faculty Development Programme (09-20 Nov. 2019)*

on

## "Internet of Things: Education Canvas"
## & Inauguration of IoT Lab (CL-2)

organized by

## SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY,
### Management & Gramothan, Jaipur

on
### 09th November, 2019 at 08:30 am
### Venue: IAI LAB (IT Department), SKIT, Jaipur

| | | |
|---|---|---|
| *Chief Guest:* | *Prof. (Dr.) R. A. Gupta* | *(Vice Chancellor-RTU, Kota)* |
| *Guest of Honor:* | *Dr. Mani Madhukar* | *(IBM India Pvt. Ltd.)* |

**Prof. (Dr.) Anil Chaudhary**
**(Convener)**

➕ *Kindly join us on refreshment and lunch session.*

## 15. FDP Schedule

A Two Week AICTE Sponsored Faculty Development Programme
Internet of Things: Education Canvas
09th - 20th November, 2019
Venue: Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

| Date | From | To | Duration | Area | Session Mode | FDP Topics | Venue | Resource Person |
|------|------|-----|----------|------|--------------|------------|-------|-----------------|
| Day 1 (09 Nov, Saturday) | 8:00 AM | 8:30 AM | 0:30 | Registration and Campus Visit (All Participants) | | | | |
| | 8:30 AM | 9:30 AM | 1:00 | Inaugural Function and Motivatinal Talks | | | IAI Lab | Prof. (Dr.) R. A. Gupta (Vice Chancellor-RTU Kota) Dr. Mani Madhukar, Program Manager - University Relations, IBM India Pvt. Ltd. & IBM Team Sh. Surja Ram Meel, Chairmain (SKIT) Sh. Jaipal Meel , Director (SKIT) Prof. S. L. Surana, Director (Academics), SKIT Prof. Anil Chaudhary (HOD-IT) |
| | 9:30 AM | 10:00 AM | 0:30 | High Tea & Group Photo Session | | | | |
| | 10:00 AM | 12:30 PM | 2:30 | Cloud is Needed for IoT | Lecture | Introduction to Cloud, Why Cloud is needed for IoT, IBM Cloud services, Getting an academic account for Cloud usage | IAI Lab | Dr. Mani Madhukar, Program Manager - University Relations, IBM India Pvt. Ltd. & IBM Team |
| | 12:30 PM | 1:30 PM | 1:00 | Lunch | | | | |
| | 1:30 PM | 3:30 PM | 2:00 | IoT Platform | Lecture + Demo | IBM Watson IoT platform, Demo, Understanding Blockchain for enterprise, Blockchain and IoT, | IAI Lab | Dr. Mani Madhukar, Program Manager - University Relations, IBM India Pvt. Ltd. & IBM Team |
| | 3:30 PM | 3:45 PM | 0:15 | High Tea | | | | |
| | 3:45 PM | 5:15 PM | 1:30 | IoT business and Opportunities | Hands on session | Deep dive into Hyperledger Fabric, Hyperledger Composer, use case discussion, IoT business and opportunities | IAI Lab | Dr. Mani Madhukar, Program Manager - University Relations, IBM India Pvt. Ltd. & IBM Team |

| | | | | | | **Building IoT application** | | |
|---|---|---|---|---|---|---|---|---|
| **Date** | **From** | **To** | **Duration** | **Area** | **Session Mode** | **FDP Topics** | **Venue** | **Resource Person** |
| **Day 2 (11 Nov, Monday)** | 9:00 AM | 11:00 AM | 2:00 | Node-Red | Lecture + Hands-on | Understanding Node-Red, Demo | IAI Lab | Dr. Mani Madhukar, Program Manager - University Relations, IBM India Pvt. Ltd. & IBM Team |
| | 11:00 AM | 11:30 AM | 0:30 | Tea Break | | | | |
| | 11:30 AM | 12:30 PM | 1:00 | IBM Cloud and IoT | Lecture + Hands-on | Practical exercises with IBM Cloud and IoT | IAI Lab | Dr. Mani Madhukar, Program Manager - University Relations, IBM India Pvt. Ltd. & IBM Team |
| | 12:30 PM | 1:30 PM | 1:00 | Lunch | | | | |
| | 1:30 PM | 2:30 PM | 1:00 | IBM Cloud and IoT | Lecture + Hands-on | Practical exercises with IBM Cloud and IoT | IAI Lab | Dr. Mani Madhukar, Program Manager - University Relations, IBM India Pvt. Ltd. & IBM Team |
| | 2:30 PM | 2:45 PM | 0:15 | Tea Break | | | | |
| | 2:45 PM | 3:45 PM | 1:00 | IBM Cloud and IoT | Lecture + Hands-on | Practical exercises with IBM Cloud and IoT | IAI Lab | Dr. Mani Madhukar, Program Manager - University Relations, IBM India Pvt. Ltd. & IBM Team |

| | | | | | | **Raspberry Pi and its Applications** | | |
|---|---|---|---|---|---|---|---|---|
| Date | From | To | Duration | Area | Session Mode | FDP Topics | Venue | Resource Person |
| **Day 3 (12 Nov, Tuesday)** | 9:00 AM | 11:00 AM | 2:00 | Requirement for IoT | Lecture + Hands-on | Hardware requirement for IoT, Raspberry Pi Board and its Applications | IAI Lab | Mr. Ishan Vaid, Subject Matter Expert, IBM India |
| | 11:00 AM | 11:30 AM | 0:30 | | | | | |
| | 11:30 AM | 12:30 PM | 1:00 | Raspberry Pi | Lecture + Hands-on | Installation of OS in Raspberry Pi, Configuration of raspberry pi | IAI Lab | Mr. Ishan Vaid, Subject Matter Expert, IBM India |
| | 12:30 PM | 1:30 PM | 1:00 | | | | | |
| | 1:30 PM | 3:30 PM | 2:00 | Sensors | Lecture + Hands-on | Different type of sensors and their use cases | IAI Lab | Mr. Ishan Vaid, Subject Matter Expert, IBM India |
| | 3:30 PM | 3:45 PM | 0:15 | | | | | |
| | 3:45 PM | 4:45 PM | 1:00 | Case Studies | Lecture + Hands-on | Discussion on Sensors application and usages | IAI Lab | Mr. Ishan Vaid, Subject Matter Expert, IBM India |

| | | | | | | **Data Processing Using IoT** | | | |
|---|---|---|---|---|---|---|---|---|---|

| **Date** | **From** | **To** | **Duration** | **Area** | **Sesson Mode** | **FDP Topics** | **Venue** | **Resource Person** |
|---|---|---|---|---|---|---|---|---|
| **Day4 (13 Nov, Wednesday)** | 9:00 AM | 11:00 AM | 2:00 | Data Processing Using IoT | Lecture + Hands-on | Data Processing Using IoT ,Connecting different sensors, Visual recognition service, Security of IoT | IAI Lab | Mr. Ishan Vaid, Subject Matter Expert, IBM India |
| | 11:00 AM | 11:30 AM | 0:30 | **Tea Break** | | | | |
| | 11:30 AM | 12:30 PM | 1:00 | Raspberry Pi | Lecture + Hands-on | Home Automation Project based on Raspberry Pi | IAI Lab | Mr. Ishan Vaid, Subject Matter Expert, IBM India |
| | 12:30 PM | 1:30 PM | 1:00 | **Lunch** | | | | |
| | 1:30 PM | 3:30 PM | 2:00 | Using services on IBM Cloud | Lecture + Hands-on | Using services on IBM Cloud, Visual recognition service | IAI Lab | Mr. Ishan Vaid, Subject Matter Expert, IBM India |
| | 3:30 PM | 3:45 PM | 0:15 | **Tea Break** | | | | |
| | 3:45 PM | 4:45 PM | 1:00 | Security of IoT | Lecture + Hands-on | Discussion on Security of IoT | IAI Lab | Mr. Ishan Vaid, Subject Matter Expert, IBM India |

| | | | | | | **IOT and Cloud Computing** | | | |
|---|---|---|---|---|---|---|---|---|---|

| Date | From | To | Duration | Area | Sesson Mode | FDP Topics | Venue | Resource Person |
|---|---|---|---|---|---|---|---|---|
| **Day 5 (14 Nov, Thursday)** | 9:00 AM | 11:00 AM | 2:00 | IoT and Cloud Computing | Lecture + Hands-on | Introduction to IoT and Cloud Computing | IAI Lab | Mr. Peeyush Maharshi, Principal Consultant from Infosys & Infosys Team |
| | 11:00 AM | 11:30 AM | 0:30 | Tea Break | | | | |
| | 11:30 AM | 12:30 PM | 1:00 | Internet of Things | Lecture + Hands-on | ExpressJS in Raspberry Pi , Heroku | IAI Lab | Mr. Kartavya Jain, CEO Jainson Corp, Jaipur & Jainson Corp Team |
| | 12:30 PM | 1:30 PM | 1:00 | **Lunch** | | | | |
| | 1:30 PM | 3:30 PM | 2:00 | Cloud & IoT | Lecture + Hands-on | SaaS PaaS and IaaS, AWS Quickstart | IAI Lab | Dr. Basant Agarwal, Assistant Professor, Department of Computer Science & Engineering, Indian Institute of Information Technology, Kota |
| | 3:30 PM | 3:45 PM | 0:15 | **Tea Break** | | | | |
| | 3:45 PM | 4:45 PM | 1:00 | Internet of Things | Lecture + Hands-on | IoT Basics (Hands On Session):- Docker | IAI Lab | Dr. Basant Agarwal, Assistant Professor, Department of Computer Science & Engineering, Indian Institute of Information Technology, Kota |

## IOT and Virtualization

| Date | From | To | Duration | Area | Sesson Mode | FDP Topics | Venue | Resource Person |
|------|------|-----|----------|------|-------------|------------|-------|-----------------|
| **Day 6 (15, Nov, Friday)** | 9:00 AM | 11:00 AM | 2:00 | IoT: Virtualization | Lecture + Hands-on | IoT: Virtualization, IoT use case discussion | IAI Lab | Dr. Poonam Gera, Assistant Professor, Department of Computer Science & Engineering, The LNM Institute of Information Technology (LNMIIT), Jaipur |
| | 11:00 AM | 11:30 AM | 0:30 | | | Tea Break | | |
| | 11:30 AM | 12:30 PM | 1:00 | AWS | Lecture + Hands-on | Setting up Free tier AWS, AWS CLI, Policys, Security Credentials, and Testing | IAI Lab | Mr. Kartavya Jain, Jainson Corp, Jaipur |
| | 12:30 PM | 1:30 PM | 1:00 | | | Lunch | | |
| | 1:30 PM | 3:30 PM | 2:00 | AWS, IoT | Lecture + Hands-on | AWS Free Tier and Configuring the AWS CLI, AWS IoT Actions and Core related services | IAI Lab | Dr. Basant Agarwal, Assistant Professor, Department of Computer Science & Engineering, Indian Institute of Information Technology, Kota |
| | 3:30 PM | 3:45 PM | 0:15 | | | Tea Break | | |
| | 3:45 PM | 4:45 PM | 1:00 | IoT Policy and Roles | Lecture + Hands-on | Introducing IAM for IoT Policy and Roles, Creating Security Credentials and composing an IoT policy from AWS IoT Core | IAI Lab | Dr. Basant Agarwal, Assistant Professor, Department of Computer Science & Engineering, Indian Institute of Information Technology, Kota |

## IOT and Arduino

| Date | From | To | Duration | Area | Sesson Mode | FDP Topics | Venue | Resource Person |
|------|------|-----|----------|------|-------------|------------|-------|-----------------|
| **Day 7 (16, Nov, Saturday)** | 9:00 AM | 11:00 AM | 2:00 | Arduino IDE | Lecture + Hands-on | Using the Arduino IDE with Node Red to AWS IoT Core | IAI Lab | Mr. Devesh Kumar Mathur, Cyber Security Practice, Tata Consultancy Services & TCS Team |
| | 11:00 AM | 11:30 AM | 0:30 | | | Tea Break | | |
| | 11:30 AM | 12:30 PM | 1:00 | IoT Edge Modules | Lecture | Device Provisioning Service, IoT Edge Modules | IAI Lab | Mr. Devesh Kumar Mathur, Cyber Security Practice, Tata Consultancy Services & TCS Team |

| | 12:30 PM | 1:30 PM | 1:00 | **Lunch** | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1:30 PM | 3:30 PM | 2:00 | Node-Red with Arduino and AWS IoT | Lecture + Hands-on | Intro to using Node-Red with Arduino and AWS IoT | IAI Lab | Mr. Devesh Kumar Mathur, Cyber Security Practice, Tata Consultancy Services & TCS Team |
| | 3:30 PM | 3:45 PM | 0:15 | **Tea Break** | | | | |
| | 3:45 PM | 4:45 PM | 1:00 | Node MCU | Lecture | Introduction to Node MCU | IAI Lab | Mr. Ankit Kumar, Assistant Professor, Department of Computer Science & Engineering, SKIT, Jaipur |

| **Programming with Raspberry Pi3** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Date | From | To | Duration | Area | Sesson Mode | FDP Topics | Venue | Resource Person |
| Day 8 (18 Nov, Monday) | 9:00 AM | 11:00 AM | 2:00 | Internet of Things | Lecture + Hands-on | IoT: Yesterday, Today and Tomorrow | IAI Lab | Mr. Sombabu Gunithi, Technical Manager, Einfochips, India & Einfochips Team |
| | 11:00 AM | 11:30 AM | 0:30 | Tea Break | | | | |
| | 11:30 AM | 12:30 PM | 1:00 | IoT Challenges | Lecture + Hands-on | IoT Challenges | IAI Lab | Mr. Sombabu Gunithi, Technical Manager, Einfochips, India & Einfochips Team |
| | 12:30 PM | 1:30 PM | 1:00 | Lunch | | | | |
| | 1:30 PM | 3:30 PM | 2:00 | MQTT Essentials | Lecture + Hands-on | MQTT Essentials: Workshop on IoT protocol | IAI Lab | Mr. Sombabu Gunithi, Technical Manager, Einfochips, India & Einfochips Team |
| | 3:30 PM | 3:45 PM | 0:15 | Tea Break | | | | |
| | 3:45 PM | 4:45 PM | 1:00 | MQTT, IoT | Lecture + Hands-on | Live demonstration: MQTT | IAI Lab | Mr. Sombabu Gunithi, Technical Manager, Einfochips, India & Einfochips Team |

| **Securely Designing IoT Things and Systems** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Date | From | To | Duration | Area | Sesson Mode | FDP Topics | Venue | Resource Person |
| Day 9 (19 Nov, Tuesday) | 9:00 AM | 11:00 AM | 2:00 | Efficient IoT Reference Architectures | Lecture + Hands-on | Scalable, Manageable and Efficient IoT Reference Architectures, Azure IoT Reference Architecture | IAI Lab | Mr. Sombabu Gunithi, Reserach Scientist at Stennis – Core, Einfochips, India & Einfochips Team |
| | 11:00 AM | 11:30 AM | 0:30 | Tea Break | | | | |
| | 11:30 AM | 12:30 PM | 1:00 | AWS IoT Reference Architecture | Lecture + Hands-on | AWS IoT Reference Architecture, IBM IoT Reference Architecture, Open Source IoT Reference Architecture | IAI Lab | Mr. Sombabu Gunithi, Reserach Scientist at Stennis – Core, Einfochips, India & Einfochips Team |

| 12:30 PM | 1:30 PM | 1:00 | Lunch | | | | |
|----------|---------|------|-------|---|---|---|---|
| 1:30 PM | 3:30 PM | 2:00 | Azure IoT | Lecture + Hands-on | Workshop on Azure IoT PaaS components, includes live demonstration of connecting simulated device to Azure IoT | IAI Lab | Mr. Sombabu Gunithi, Reserach Scientist at Stennis – Core, Einfochips, India & Einfochips Team |
| 3:30 PM | 3:45 PM | 0:15 | Tea Break | | | | |
| 3:45 PM | 4:45 PM | 1:00 | IoT Security | Lecture + Hands-on | IoT Security: Implement a strong, simple and massively scalable solution | IAI Lab | Dr. Pankaj Dadheech, Associate Professor, Department of Computer Science & Engineering, SKIT, Jaipur |

| Implementing Cryptography Within the IoT | | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | From | To | Duration | Area | Sesson Mode | FDP Topics | Venue | Resource Person |
| Day 10 (20, Nov, Wednesday) | 9:00 AM | 10:00 AM | 2:00 | IoT Security | Lecture | Implementing Cryptography Within the IoT | IAI Lab | Dr. Pramod Gaur, Assistant Professor, Department of Computer Science & Engineering, The LNM Institute of Information Technology (LNMIIT), Jaipur |
| | 10:00 AM | 11:00 AM | 1:00 | IoT Security | Demo | Fundamentals of Cryptography Cryptographic Modules Cryptographic Key Management | IAI Lab | Dr. Pramod Gaur, Assistant Professor, Department of Computer Science & Engineering, The LNM Institute of Information Technology (LNMIIT), Jaipur |
| | 11:00 AM | 11:30 AM | 0:30 | Tea Break | | | | |
| | 11:30 AM | 12:30 PM | 1:00 | Blockchain for the IoT | Hands-on | Case Study: New Approaches – Blockchain for the IoT | IAI Lab | Dr. Anil Chaudhary, Professor, Department of Information Technology, SKIT, Jaipur |
| | 12:30 PM | 1:30 PM | 1:00 | Lunch | | | | |
| | 1:30 PM | 3:30 PM | 2:00 | **Valedictory Session** | | | | |

## 16. Sessions of FDP:-

That FDP scheduled in following two sessions every day from 09<sup>th</sup> November to 20<sup>th</sup> November, 2019:-

## DAY 1 (Inaugural Function and Motivational Talks)

In welcome speech was addressing by Prof. (Dr.) R. A. Gupta (Vice Chancellor-RTU Kota) shared his views with the faculty participants that if faculty wants to develop themselves and their students, then attending such faculty development programmes would enhance their skills of teaching concepts practically. Sir further shared that it helps to improve the performance of faculty in teaching and highlighted the importance and objectives of organizing faculty development programmes. He briefed the participants about the subjects chosen for the FDP and highlighted the reasons and importance of the same.



The very first day our expert **"Dr. Mani Madhukar",** Program Manager - University Relations, IBM India Pvt. Ltd. & IBM Team explained what research was all about. He connected things starting from the rig Vedas to the modern philosophy of doing research. He described how the process of metamorphosis takes place when it comes to finding answer to a question. The second issue which he emphasized on was the collection of data. According to him the two sources of data collection are the primary and the secondary sources and one has to choose among the two in accordance to the question which has been framed. He emphasized on the framing of the research question and held it to be the fundamental and initial step to do research. One should focus on the suitability of the research question and its applicability to which type of people even the geographic areas and mentality of the people. He made the session interactive and based on various examples for better understanding of the academicians. Last but not the least when the house was open for questions the academicians were keen to ask and with the same level of enthusiasm they were justifiably answered by professor.

## DAY 2

A session by **Dr. Mani Madhukar,** has explain about the Understanding of  Node-Red, Demonstrated practical exercises with IBM Cloud and IoT Hardware requirement for IoT, Raspberry Pi Board and its Applications.He show how we can use the cloud for IoT and analysis the data .



## DAY 3

**Mr. IshanVaid, Subject Matter Expert, IBM India** discussed the introduction of Internet of Things. It includes Arduino IDE installation, basic programming constructs for Arduino and various communication protocols used.He defined Arduino programs can be divided in three main parts: Structure, Values (variables and constants), and Functions. He teaches about the Arduino software program, step by step, and how we can write the program without any syntax or compilation error. He also explained introductory module for using hardware component and how to connect the components into the chip and how you can run simple programs inside the chip. We start out with connecting the chip to the computer and testing that it actually works. Then we continue with plugging simple components, like LED bulb and a button, into the chip.

## DAY 4

The next day session was continued by **Mr. IshanVaid** talked about IoT Lab Kits which can be used to do various experiments like RF experiments, Embedded Programming, experiments on interfacing with UbiSense, WSN applications, IOT applications. An introduction to Raspberry Pi computer components was given. Raspberry connectivity was demonstrated with remote devices Raspberry Pi is a credit card sized micro processor available in different models with different processing speed starting from 700 MHz he told us that whether you have a model B or model B+, or the very old version, the installation process remains the same. He shows us the official Raspberry Pi website, might have seen them recommending the "NOOBS" or "NOOBS LITE" Operating System (aka "OS") for beginners. But using the Pi is very easy and from being a beginner, one will turn pro in no time. So, it's better to go with the more powerful and more efficient OS, the Raspbian. He discussed about the main reason why Raspbian is extremely popular is that it has thousands of pre built libraries to perform many tasks and optimize the OS. This forms a huge advantage while building applications.

## DAY 5

A day started with session of **Mr. Peeyush Maharshi,** Principal Consultant from Infosys & Infosys Team describing Internet of Things (IoT) is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction. Breaking it down, he explained internet of things meaning can be as simple as a person with a heart monitor implant or an automobile that has built-in sensors which alert the driver of imminent danger. In continuation he give example like any object which is man-made or natural that can be designated an IP address and provided with the ability to transfer data over a network comes under the umbrella of IoT. IoT has evolved with the greater generation of data. Internet of Things Cloud Service creates excessive communication between inexpensive sensors in the IoT which means even greater connectivity; billions of connected devices and machines will soon join human-users. He also explain about the IoT and cloud computing for Future Internet The question however remains

how will the devices remain interconnected throughout? He explained the answer lies in the connectivity provided by the internet of things cloud service. Greater usage of the IoT in cloud has acted as a catalyst for the development and deployment of scalable Internet of Things applications and business models. The cloud computing and IoT have become two very closely affiliated future internet technologies with one providing the other a platform for success. Leads to numerous benefits which the convergence of IoT and Cloud computing has derived was discussed in this session.



The entire world is going bonkers over data, IoT and Artificial Intelligence. **Dr. Basant Agarwal** talked about the amount of data we generate every single day and numerous statistics have shown how much data we would generate by the year 2025 and discuss how algorithms or concepts from other technologies would be applied to IoT data for optimizations. He gave example how Machine Learning became a household term when Facebook shut down it's Artificial Intelligence wing when one of its bots discovered a whole new language. With Elon Musk commenting on If you use Siri, for instance, you would notice that its responses are more polished and appropriate as you keep using it. That is one of the basic applications of Machine Learning. But when it comes to a complex concept like IoT, how would Machine Learning make things better for the Internet of Things? He explained every time the IoT sensors gather data, there has to be someone at the backend to classify the data, process them and ensure information is sent out back to the device for decision making.
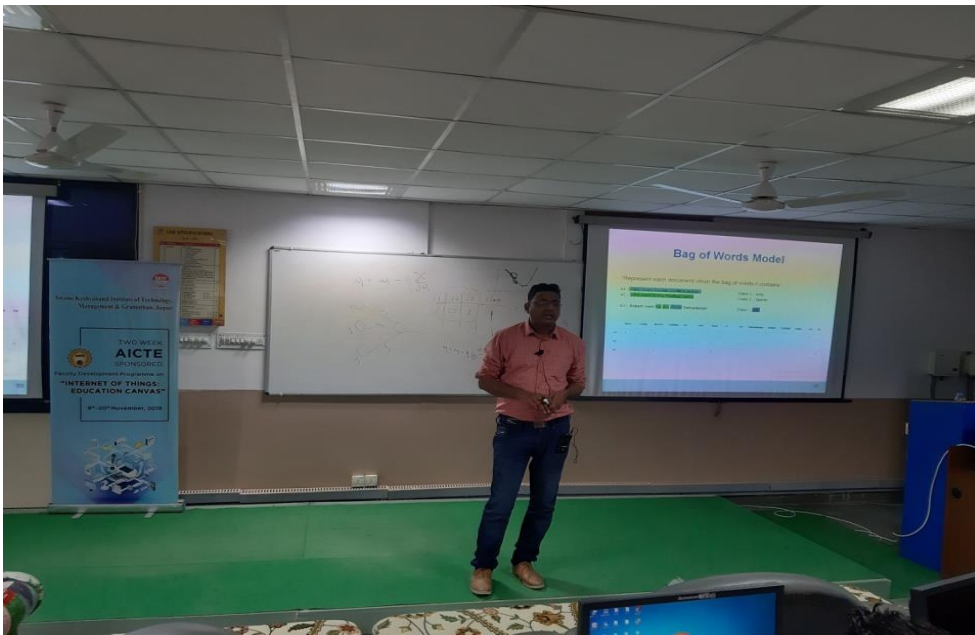
# DAY 6

In this session resource person **Dr. Poonam Gera**, Assistant Professor, Department of Computer Science & Engineering, The LNM Institute of Information Technology (LNMIIT), Jaipur throw light on IoT security challenges continue to grow, so too does the need for technologies and processes to address the problems .She listed eight key technology considerations to improve IoT security:

1. *Network security:* IoT networks are predominately wireless now, as wireless overtook wired global internet traffic back in 2015. This makes security far more challenging than with traditional wired networks due to the variety of emerging RF and wireless communication protocols and standards.

2. *Authentication:* IoT devices must be authenticated by all legitimate users. Methods to achieve such authentication range from static passwords to two-factor authentication, biometrics, and digital certificates. Unique to IoT is that devices (e.g., embedded sensors) will need to authenticate other devices.

3. *Encryption:* Encryption will be needed to prevent unauthorized access to data and devices. This will be difficult to ensure due to the variety of IoT devices and hardware profiles. Encryption must be part of a complete security management process.

4. *Security-side-channel attacks:* Even with adequate encryption and authentication, another threat is possible, namely, side-channel attacks. Such attacks focus less on information transfer and more on how that information is being presented. Side-channel attacks (SCAs) collect operational characteristics—execution time, power consumers, electromagnetic emanation of the design to retrieve keys, and fault insertion—to gain other insights into the design *(Fig. 2)*.

5. *Security analytics and threat prediction:* Not only must security-related data be monitored and controlled, it must also be used to predict future threats. It has to complement traditional approaches that look for activities that fall outside of an established policy. Prediction will require new algorithms and the application of artificial intelligence to access non-traditional attack strategies.

6. *Interface protection:* Most hardware and software designers access devices via an application programming interface (API). Securing these interfaces requires the ability to authenticate and authorize devices that need to exchange data (hopefully encrypted). Only authorized devices, developers, and applications should be capable of communication between secure devices.

7. *Delivery mechanisms:* Continuous updates and patches will be needed to deal with the constantly changing tactics of cyberattackers. This will require expertise in patches, essentially fixing gaps in critical software on the fly.

8. *System development:* IoT security requires an end-to-end approach in the network design. Also, security should be a full product-lifecycle development activity, which becomes difficult if the product is only a smart sensor. Security is still an afterthought for most designers, something that follows the implementation (not design) phase. It's critical that both hardware and software be considered in these secure systems.



# DAY 7

**Mr. Devesh Kumar Mathur**, Cyber Security Practice, Tata Consultancy Services & TCS Team share knowledge on IoT security is the act of securing Internet of Things devices and the networks they're connected to. He also talked about business setting, IoT devices include industrial machines, smart energy grids, building automation, plus whatever personal IoT devices employees bring to work. IoT devices were not built with security in mind. He defined there is no way to install security on the device itself. In addition, he stated that sometimes ship with malware on them, which then infects the network they are connected to. Some network security doesn't have the ability to detect IoT devices connected to it and/or the visibility to know what devices are communicating through the network. IoT security can only be accomplished with an integrated solution that delivers visibility, segmentation, and protection throughout the entire network infrastructure, such as a holistic security fabric approach. He also give solution that will be ability to learn with complete network visibility, security solutions can authenticate and classify IoT devices to build a risk profile and assign them to IoT device groups. He stated
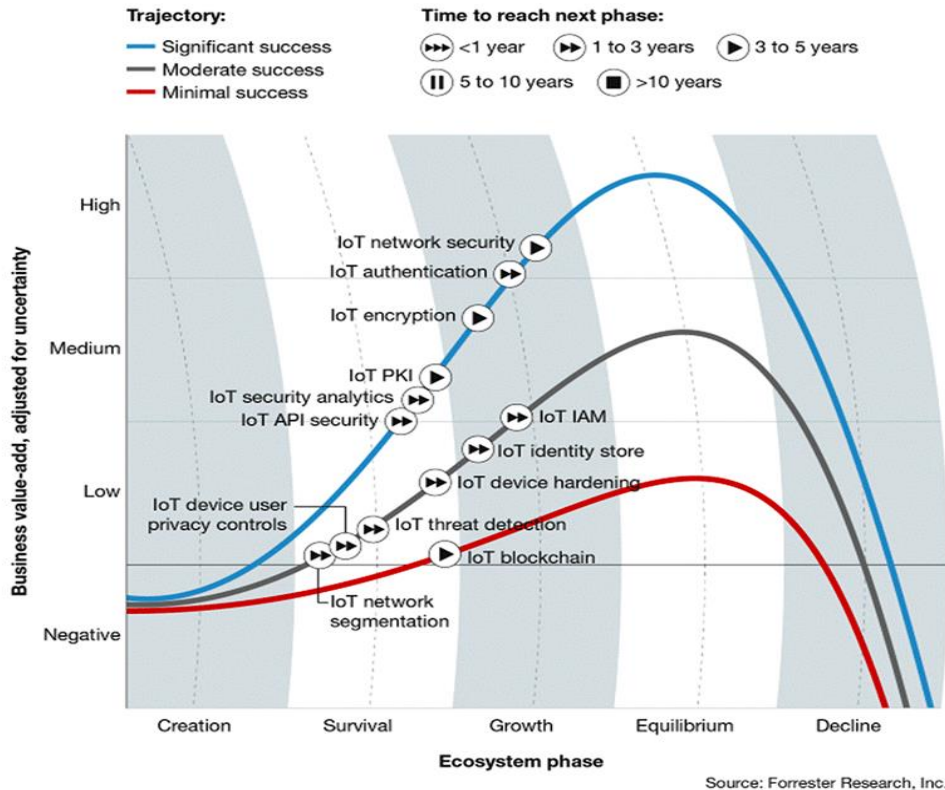
once the enterprise understands its IoT attack surface, IoT devices can be segmented into policy-driven groups based on their risk profiles. At last he stated policy-driven IoT groups and internal network segmentation enable monitoring, inspection, and policy enforcement based on the activity at various points within the infrastructure.
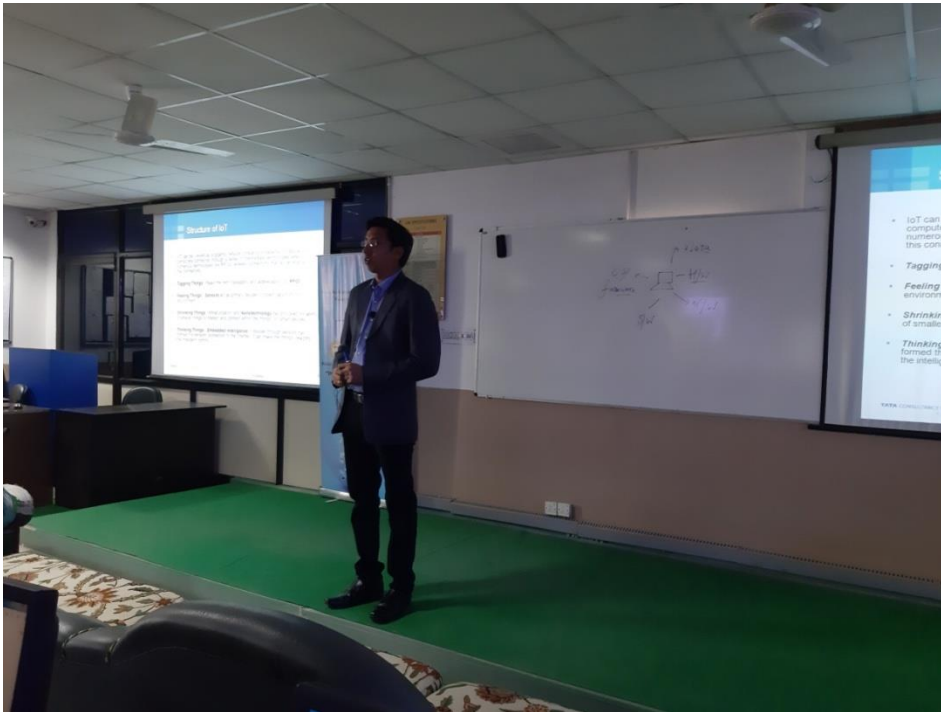


# DAY 8

**Mr. Sombabu Gunithi,** Technical Manager, Einfochips, India & Einfochips Team show a recent report by Gartner predicts that there will be 20.4 billion connected Internet of Things (IoT) devices by 2020, with 5.5 million new things getting connected every day. Furthermore, more than half of major new business processes and systems will include an IoT component by 2020.These numbers are staggering and suggest that standard PC security and anti-virus solutions will not be able to counter future cyber security threats on connected IoT devices. He defined need for more robust measures to secure IoT embedded devices was confirmed by recent Forrester's TechRadar research that defined the use cases, business value, and outlook for the 13 most relevant and important IoT security technologies. This included core technologies, such as IoT authentication and IoT encryption, in addition to emerging IoT security technologies like IoT threat detection, IoT blockchain, and IoT security analytics *(Fig. 1).*

TechRadar™: Internet Of Things Security, Q1 '17

**Trajectory:**
— Significant success
— Moderate success
— Minimal success

**Time to reach next phase:**
(▶▶▶) <1 year   (▶▶) 1 to 3 years   (▶) 3 to 5 years
(II) 5 to 10 years   (■) >10 years

Business value-add, adjusted for uncertainty

High
Medium
Low
Negative

IoT network security (▶)
IoT authentication (▶▶)
IoT encryption (▶)
IoT PKI (▶)
IoT security analytics (▶▶)
IoT API security (▶▶)
IoT IAM (▶▶)
IoT identity store (▶▶)
IoT device hardening (▶▶)
IoT device user privacy controls
IoT threat detection (▶▶)
IoT blockchain (▶)
IoT network segmentation

Creation   Survival   Growth   Equilibrium   Decline

**Ecosystem phase**

Source: Forrester Research, Inc.

# Growing Security Threat

In the last few years, many well-publicized cyberattacks have demonstrated the risks of inadequate IoT security. Perhaps the best known was the "Stuxnet" attack, which targeted industrial programmable logic controllers (PLCs) in an Iranian uranium enrichment facility. Experts believe that Stuxnet destroyed up to 1,000 centrifuges connected via wide-area networks (WANs) to PLC devices running the Windows operating system on standard PC platforms. Even if you utilize reasonable IoT security measures, your connected gadgets may well be compromised by criminals. Last fall, Dynan internet DSN provider—came under an attack that disrupted access to popular websites. The attackers were able to take control of large numbers of internet-connected devices, such as DVRs and cameras. These devices then helped in the attack.

### Securing the IoT

Securing the Internet of Things is a tricky business. Take the fact that IoT devices come in every shape, size, and function. This makes traditional end-point security models impractical. On top of that, by their very nature, IoT devices are resource-constrained in terms of power, performance, and functionality. Many use very customized and non-standard operating systems (remember NANIX, a version of Linux for early wearable devices). With so many limited resource devices, it's nearly impossible for network administrators to know what's going on with all of the devices. Further complicating this issue is that many IoT devices have very long lifecycles and almost no security, i.e., a temperature sensor in a commercial or industrial setting. Also, many IoT devices can't be easily patched or upgraded with the latest software due to their original design or limited resources such as memory and process. Finally, many connected devices use non-standard and legacy communication protocols (think M2M) that aren't recognized by most security products.

**Eight Critical IoT Security Technologies**



Source: Microsemi Corp.
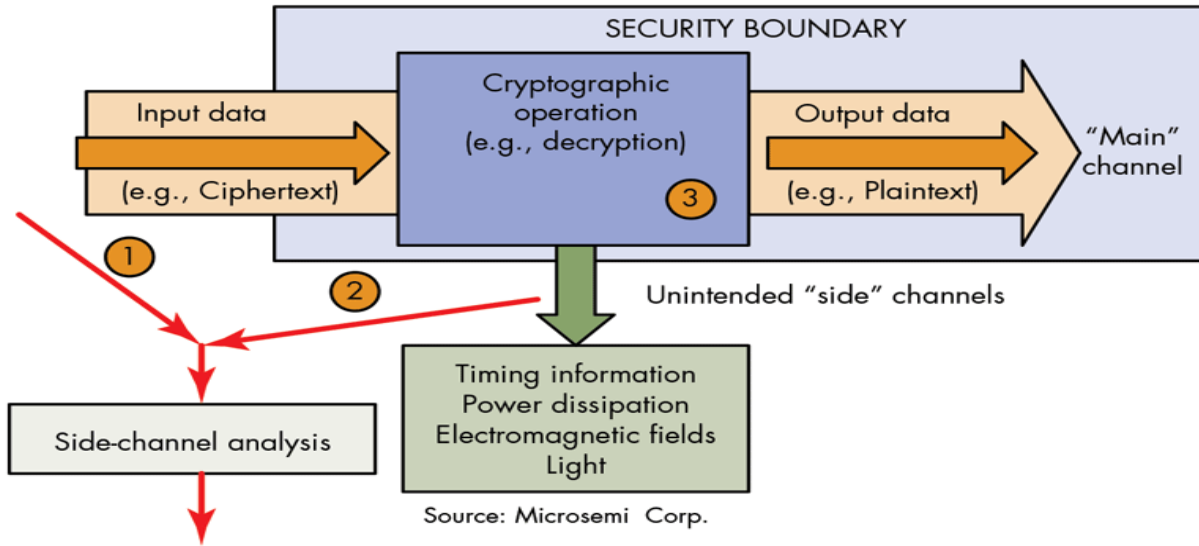
# DAY 9

The session was continued by **Mr. Sombabu Gunithi,** talked about MQTT Essentials: Workshop on IoT protocol, the rapid growth of IoT devices and the challenges posed by wireless connectivity among these devices necessitates an expanded focus on cybersecurity. The eight key critical IoT security technologies presented here are a combination of traditional and newer methods and tools that work to truly secure the IoT. Live demonstration: MQTT, Scalable, Manageable and Efficient IoT Reference Architectures, Azure IoT Reference Architecture, AWS IoT Reference Architecture, IBM IoT Reference Architecture, Open Source IoT Reference Architecture Workshop on Azure IoT PaaS components,   includes live demonstration of connecting simulated device to Azure IoT discussion of various MQTT Protocols and defined the difference between Arduino and Raspberry Pi usage in the different projects was held. Notwithstanding the widespread popularity of smart technologies, most of them reveal a significant drawback in terms of user safety. Because of that, the appearance of IoT security as a concept was inevitable. At the same time, this area is still on the stage of ongoing development. In the given circumstances, it is relevant to distinguish IoT security best practices and make a right choice in the mess of mediocre attempts to address the protection issues properly.
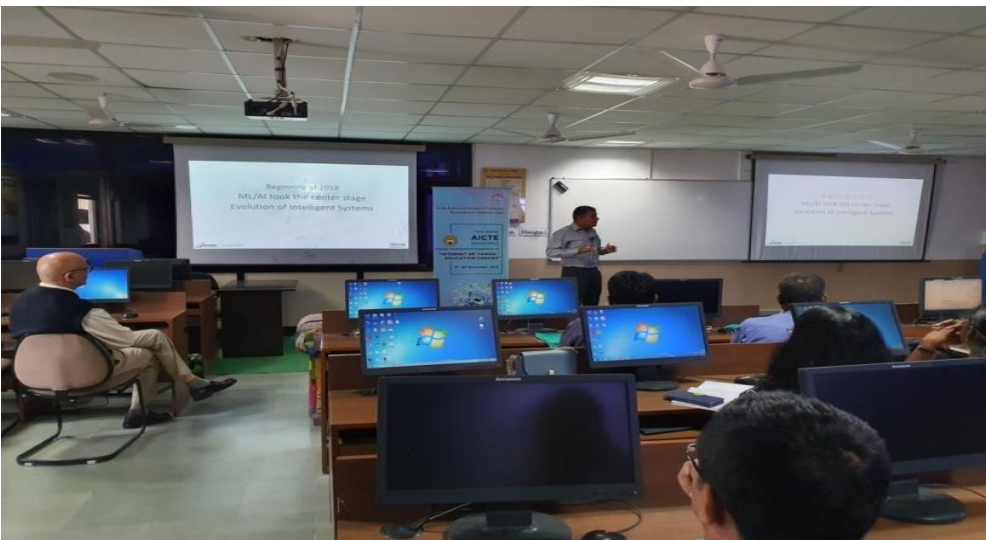
## DAY 10

In this session expert **Dr. Pramod Gaur**, Assistant Professor, Department of Computer Science & Engineering, The LNM Institute of Information Technology (LNMIIT), Jaipur discussed about the topic like Implementing Cryptography Within the IoT, Fundamentals of Cryptography, Case Study: New Approaches like Blockchain for the IoT Internet of Things (IoT) security and privacy remain a major challenge, mainly due to the massive scale and distributed nature of IoT networks. He explained how the Blockchain-based approaches provide decentralized security and privacy, yet they involve significant energy, delay, and computational overhead that is not suitable for most resource-constrained IoT devices. He presented a lightweight instantiation of a BC particularly geared for use in IoT by eliminating the Proof of Work (POW) and the concept of coins. Defined approach was exemplified in a smart home setting and consists of three main tiers namely: cloud storage, overlay, and smart home. He delve deeper and outline the various core components and functions of the smart home tier. He said that each smart home is equipped with an always online, high resource device, known as "miner " that is responsible for handling all communication within and external to the home. The miner also preserves a private and secure BC, used for controlling and auditing communications. He show that our proposed BC-based smart home framework is secure by thoroughly analyzing its security with respect to the fundamental security goals of confidentiality, integrity, and availability. Finally, he presented simulation results to highlight that the overheads (in terms of traffic, processing time and energy consumption) introduced by his approach are significant  to its security and privacy gains.

# 16. Attendance Sheet of Participants:-

**Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**

AICTE Sponsored
Faculty Development Program on
"Internet of Things: Education Canvas"
09 November-20 November, 2019

**ATTENDANCE SHEET**

Date: 09.11.19

| SN | Name of Participant | Morning | Afternoon |
|---|---|---|---|
| 1 | Mr. Manish P. Bhelande | | |
| 2 | Ms. Bhargavi B. Dalal | | |
| 3 | Ms. Chhaya Narvekar | | |
| 4 | Dr. Vikas J. Dongre | | |
| 5 | Ms. Sushama Khanvilkar | | |
| 6 | Dr. Sukhwinder Sharma | | |
| 7 | Prof. Ajit S. Patil | | |
| 8 | Mr. Tanaji-Bhauso Patil | | |
| 9 | Dr. Vadali Srinivas | | |
| 10 | Mr. Deepak Aggarwal | | |
| 11 | Dr. Raj Kumar Goel | | |
| 12 | Dr. Rajesh Reddy Eswarawaka | | |
| 13 | Mr. Vijaykumar Selvam | | |
| 14 | Mr. Narendrasingh B. Gohil | | |
| 15 | Dr. K. Venkatagurunatha Naidu | | |
| 16 | Dr. S. Rajasoundaran | | |
| 17 | Mr. P. Raghavan | | |
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| 22 | Dr. Garima Srivastava | | |
| 23 | Mrs. G. Mangaiyarkarasi | | |
| 24 | Dr. Avinash Sharma | | |
| 25 | Mr. Krishan Kumar Prajapat | | |
| 26 | Mr. K. R. Yadav (KALU RAM Yadav) | | |
| 27 | Dr. Dinesh Goyal | | |
| 28 | Dr. Ajay Khunteta | | |
| 29 | Dr. Linesh Raja | | |
| 30 | Dr. Vijander Singh | | |
| 31 | Mr. Sandeep Bhargava | | |
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| 35 | Ms. Manju Choudhary | | |
| 36 | Mr. Ankit Agrawal | | |
| 37 | Mr. Ajay Kumar Dhanopia | | |
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# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

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| 42 | Mrs. Priyanka | Priyanka | Priyanka |
| 43 | Dr. Pankaj Dadheech | | |
| 44 | Dr. S. R. Dogiwal | | |
| 45 | Mr. Ankit Kumar | Ankit kr | Ankit kr |
| 46 | Mr. Kailash Soni | Kailash | Kailash |
| 47 | Mr. Naveen Jain | Naveen | Naveen M. |
| 48 | Mr. Vipin Jain | Vipin | Vipin |
| 49 | Ms. Neha Mathur | New | New |
| 50 | Mr. Harpreet Singh Gill | | |
| 51 | Ms. Rubal Deep Gill | | |
| 52 | Ms. Anjali Pandey | | |
| 53 | Ms. Dolly Mittal | | |
| 54 | Ms. Nikhar Bhatnagar | | |
| 55 | Ms. Palika Jajoo | | |
| 56 | Ms. Priyanka Sharma | | |
| 57 | Ms. Shalini Singhal | Shali | Shali |
| 58 | Dr. Sunita Gupta | Sunita | Sunita |
| 59 | Ms. Nidhi Srivastava | | |
| 60 | Ms. Anshika Malsaria | | |
| 61 | Mr. Neeraj Garg | | |
| 62 | Mr. Kanak Giri | | |
| 63 | Mr. Yogendra Gupta | | |
| 64 | Mr. Sushant Kumar | | |
| 65 | Ms. Richa Rawal | | |
| 66 | Ms. Sanju Choudhary | | |
| 67 | Ms. Poonam Varshney | | |
| 68 | Dr. Niketa Sharma | Niketa | Niketa |
| 69 | Ms. Ruchika Khandelwal | | |
| 70 | Ms. Kajal Mathur | | |
| 71 | Dr. Neha Janu | Nehe | Nehe |
| 72 | Ms. Sushila Bishnoi | Sun | Sun |
| 73 | Dr. Praveen Kumar Jain | Pmain | Pmain |
| 74 | Ms. Pooja Jain | | |
| 75 | Ms. Kavita Jain | | |
| 76 | Ms. Vijeta Khicha | | |
| 77 | Mr. Mehul Mahrishi | | |
| 78 | Mr. Gajanand Sharma | | |

Prof. (Dr.) Aarti Chaudhary
Course Coordinator (FDP)

# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
## Faculty Development Program on
## "Internet of Things: Education Canvas"
### 09 November-20 November, 2019

| ATTENDANCE SHEET | | Date: 11.11.19 |
|---|---|---|

| SN | Name of Participant | Morning | Afternoon |
|---|---|---|---|
| 1 | Mr. Manish P. Bhelande | | |
| 2 | Ms. Bhargavi B. Dalal | | |
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| 14 | Mr. Narendrasinh B. Gohil | | |
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# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

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Prof. (Dr.) Anil Chaudhary
Course Coordinator (FDP)

# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
## Faculty Development Program on
## "Internet of Things: Education Canvas"
### 09 November-20 November, 2019

**ATTENDANCE SHEET**

**Date: 12.11.19**

| SN | Name of Participant | Morning | Afternoon |
|---|---|---|---|
| 1 | Mr. Manish P. Bhelande | | |
| 2 | Ms. Bhargavi B. Dalal | | |
| 3 | Ms. Chhaya Narvekar | | |
| 4 | Dr. Vikas J. Dongre | | |
| 5 | Ms. Sushama Khanvilkar | | |
| 6 | Dr. Sukhwinder Sharma | | |
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| 9 | Mr. Vadali Srinivas | | |
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| 15 | Mr. K. Venkatagurunatha Naidu | | |
| 16 | Dr. S. Rajasoundaran | | |
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| 25 | Mr. Krishan Kumar Prajapat | | |
| 26 | Mr. Kalu Ram Yadav | | |
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# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

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| 44 | Dr. S. R. Dogiwal | | |
| 45 | Mr. Ankit Kumar | | |
| 46 | Mr. Kailash Soni | Kailash | Kailash |
| 47 | Mr. Naveen Jain | Naveen | Naveen |
| 48 | Mr. Vipin Jain | Vipin | Vipin |
| 49 | Ms. Neha Mathur | | |
| 50 | Mr. Harpreet Singh Gill | | |
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| 52 | Ms. Anjali Pandey | | |
| 53 | Ms. Dolly Mittal | | |
| 54 | Ms. Nikhar Bhatnagar | | |
| 55 | Ms. Palika Jajoo | Palika | Palika |
| 56 | Ms. Priyanka Sharma | | |
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| 58 | Dr. Sunita Gupta | Sunita | Sunita |
| 59 | Ms. Nidhi Srivastava | | |
| 60 | Ms. Anshika Malsaria | | |
| 61 | Mr. Neeraj Garg | | |
| 62 | Mr. Kanak Giri | | |
| 63 | Mr. Yogendra Gupta | Yoges | Yoges |
| 64 | Mr. Sushant Kumar | | |
| 65 | Ms. Richa Rawal | | |
| 66 | Ms. Sanju Choudhary | | |
| 67 | Ms. Poonam Varshney | Nikesh | Nikesh |
| 68 | Dr. Niketa Sharma | | |
| 69 | Ms. Ruchika Khandelwal | | |
| 70 | Ms. Kajal Mathur | Neh | Neh |
| 71 | Dr. Neha Janu | Sush | Sush |
| 72 | Ms. Sushila Bishnoi | Pooja | Pooja |
| 73 | Dr. Praveen Kumar Jain | | |
| 74 | Ms. Pooja Jain | | |
| 75 | Ms. Kavita Jain | | |
| 76 | Ms. Vijeta Khicha | | |
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Prof. (Dr.) Anil Chaudhari
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# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
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## "Internet of Things: Education Canvas"
### 09 November-20 November, 2019

| ATTENDANCE SHEET | | Date: 13.11.19 |
|---|---|---|

| SN | Name of Participant | Morning | Afternoon |
|---|---|---|---|
| 1 | Mr. Manish P. Bhelande | | |
| 2 | Ms. Bhargavi B. Dalal | | |
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| 5 | Ms. Sushama Khanvilkar | | |
| 6 | Dr. Sukhwinder Sharma | | |
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| 36 | Mr. Ankit Agrawal | | |
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# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
## Faculty Development Program on
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## ATTENDANCE SHEET

**SKIT**

**AICTE**

Date: 13.11.19

| SN | Name of Participant | Morning | Afternoon |
|----|---------------------|---------|-----------|
| 41 | Ms. Anjana Sangwan | | |
| 42 | Mrs. Priyanka | | |
| 43 | Dr. Pankaj Dadheech | | |
| 44 | Dr. S. R. Dogiwal | | |
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| 51 | Ms. Rubal Deep Gill | | |
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Prof. (Dr.) Anil Chaudhary
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# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
## Faculty Development Program on
## "Internet of Things: Education Canvas"
### 09 November-20 November, 2019

**ATTENDANCE SHEET**

**Date: 14.11.19**

| SN | Name of Participant | Morning | Afternoon |
|----|---------------------|---------|-----------|
| 1 | Mr. Manish P. Bhelande | | |
| 2 | Ms. Bhargavi B. Dalal | | |
| 3 | Ms. Chhaya Narvekar | | |
| 4 | Dr. Vikas J. Dongre | | |
| 5 | Ms. Sushama Khanvilkar | | |
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## AICTE Sponsored
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### 09 November-20 November, 2019

**ATTENDANCE SHEET**

Date: 15.11.19

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|----|--------------------|---------|-----------|
| 1 | Mr. Manish P. Bhelande | | |
| 2 | Ms. Bhargavi B. Dalal | | |
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| 4 | Dr. Vikas J. Dongre | | |
| 5 | Ms. Sushama Khanvilkar | | |
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| 17 | Mr. P. Raghavan | | |
| 18 | Dr. Pooja Sapra | | |
| 19 | Dr. Manju Khari | | |
| 20 | Mr. Kshatriya Krishnakumar V. | | |
| 21 | Mr. K. Vijaya Kumar | | |
| 22 | Dr. Garima Srivastava | | |
| 23 | Mrs. G. Mangaiyarkarasi | | |
| 24 | Dr. Avinash Sharma | | |
| 25 | Mr. Krishan Kumar Prajapat | | |
| 26 | Mr. Kalu Ram Yadav | | |
| 27 | Dr. Dinesh Goyal | | |
| 28 | Dr. Ajay Khunteta | | |
| 29 | Dr. Linesh Raja | | |
| 30 | Dr. Vijander Singh | | |
| 31 | Mr. Sandeep Bhargava | | |
| 32 | Ms. Poonam Rajharia | | |
| 33 | Dr. Mukesh Arora | | |
| 34 | Ms. Pooja Choudhary | | |
| 35 | Ms. Manju Choudhary | | |
| 36 | Mr. Ankit Agrawal | | |
| 37 | Mr. Ajay Kumar Dhanopia | | |
| 38 | Dr. C. M. Choudhary | | |
| 39 | Mr. Mahender Kumar Beniwal | | |
| 40 | Mr. Sunil Dhankhar | | |

# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

**AICTE Sponsored**

**Faculty Development Program on**

**"Internet of Things: Education Canvas"**

**ATTENDANCE SHEET**

**Date: 15.11.19**

| SN | Name of Participant | Morning | Afternoon |
|----|---------------------|---------|-----------|
| 41 | Ms. Anjana Sangwan | | |
| 42 | Mrs. Priyanka | Priyanka | Priyanka |
| 43 | Dr. Pankaj Dadheech | | |
| 44 | Dr. S. R. Dogiwal | | |
| 45 | Mr. Ankit Kumar | | |
| 46 | Mr. Kailash Soni | Kailash | Kailash |
| 47 | Mr. Naveen Jain | Naveen Jain | Naveen Jain |
| 48 | Mr. Vipin Jain | | |
| 49 | Ms. Neha Mathur | | |
| 50 | Mr. Harpreet Singh Gill | | |
| 51 | Ms. Rubal Deep Gill | | |
| 52 | Ms. Anjali Pandey | | |
| 53 | Ms. Dolly Mittal | Dolly | Dolly |
| 54 | Ms. Nikhar Bhatnagar | | |
| 55 | Ms. Palika Jajoo | Palika | Palika |
| 56 | Ms. Priyanka Sharma | | |
| 57 | Ms. Shalini Singhal | Shalini | Shalini |
| 58 | Dr. Sunita Gupta | | |
| 59 | Ms. Nidhi Srivastava | | |
| 60 | Ms. Anshika Malsaria | | |
| 61 | Mr. Neeraj Garg | | |
| 62 | Mr. Kanak Giri | | |
| 63 | Mr. Yogendra Gupta | | |
| 64 | Mr. Sushant Kumar | | |
| 65 | Ms. Richa Rawal | | |
| 66 | Ms. Sanju Choudhary | | |
| 67 | Ms. Poonam Varshney | | |
| 68 | Dr. Niketa Sharma | Niketa | Niketa |
| 69 | Ms. Ruchika Khandelwal | | |
| 70 | Ms. Kajal Mathur | | |
| 71 | Dr. Neha Janu | Neha | Neha |
| 72 | Ms. Sushila Bishnoi | | |
| 73 | Dr. Praveen Kumar Jain | Jain | Jain |
| 74 | Ms. Pooja Jain | | |
| 75 | Ms. Kavita Jain | | |
| 76 | Ms. Vijeta Khicha | | |
| 77 | Mr. Mehul Mahrishi | | |
| 78 | Mr. Gajanand Sharma | | |

Prof. (Dr.) Anil Chaudhary
Course Coordinator (FDP)

# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
## Faculty Development Program on
## "Internet of Things: Education Canvas"
## 09 November-20 November, 2019

**ATTENDANCE SHEET**  Date: 16.11.19

| SN | Name of Participant | Morning | Afternoon |
|---|---|---|---|
| 1 | Mr. Manish P. Bhelande | | |
| 2 | Ms. Bhargavi B. Dalal | | |
| 3 | Ms. Chhaya Narvekar | | |
| 4 | Dr. Vikas J. Dongre | | |
| 5 | Ms. Sushama Khanvilkar | | |
| 6 | Dr. Sukhwinder Sharma | | |
| 7 | Prof. Ajit S. Patil | | |
| 8 | Mr. Tanaji Bhauso Patil | | |
| 9 | Mr. Vadali Srinivas | | |
| 10 | Mr. Deepak Aggarwal | | |
| 11 | Dr. Raj Kumar Goel | | |
| 12 | Dr. Rajesh Eswarawaka | | |
| 13 | Mr. Vijaykumar Selvam | | |
| 14 | Mr. Narendrasinh B. Gohil | | |
| 15 | Mr. K. Venkatagurunatha Naidu | | |
| 16 | Dr. S. Rajasoundaran | | |
| 17 | Mr. P. Raghavan | | |
| 18 | Dr. Pooja Sapra | | |
| 19 | Dr. Manju Khari | | |
| 20 | Mr. Kshatriya Krishnakumar V. | | |
| 21 | Mr. K. Vijaya Kumar | | |
| 22 | Dr. Garima Srivastava | | |
| 23 | Mrs. G. Mangaiyarkarasi | | |
| 24 | Dr. Avinash Sharma | | |
| 25 | Mr. Krishan Kumar Prajapat | | |
| 26 | Mr. Kalu Ram Yadav | | |
| 27 | Dr. Dinesh Goyal | | |
| 28 | Dr. Ajay Khunteta | | |
| 29 | Dr. Linesh Raja | | |
| 30 | Dr. Vijander Singh | | |
| 31 | Mr. Sandeep Bhargava | | |
| 32 | Ms. Poonam Rajharia | | |
| 33 | Dr. Mukesh Arora | | |
| 34 | Ms. Pooja Choudhary | | |
| 35 | Ms. Manju Choudhary | | |
| 36 | Mr. Ankit Agrawal | | |
| 37 | Mr. Ajay Kumar Dhanopia | | |
| 38 | Dr. C. M. Choudhary | | |
| 39 | Mr. Mahender Kumar Beniwal | | |
| 40 | Mr. Sunil Dhankhar | | |

# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
## Faculty Development Program on
## "Internet of Things: Education Canvas"
### ATTENDANCE SHEET

Date: 16.11.19

| SN | Name of Participant | Morning | Afternoon |
|----|---------------------|---------|-----------|
| 41 | Ms. Anjana Sangwan | | |
| 42 | Mrs. Priyanka | | |
| 43 | Dr. Pankaj Dadheech | | |
| 44 | Dr. S. R. Dogiwal | | |
| 45 | Mr. Ankit Kumar | | |
| 46 | Mr. Kailash Soni | | |
| 47 | Mr. Naveen Jain | | |
| 48 | Mr. Vipin Jain | | |
| 49 | Ms. Neha Mathur | | |
| 50 | Mr. Harpreet Singh Gill | | |
| 51 | Ms. Rubal Deep Gill | | |
| 52 | Ms. Anjali Pandey | | |
| 53 | Ms. Dolly Mittal | | |
| 54 | Ms. Nikhar Bhatnagar | | |
| 55 | Ms. Palika Jajoo | | |
| 56 | Ms. Priyanka Sharma | | |
| 57 | Ms. Shalini Singhal | | |
| 58 | Dr. Sunita Gupta | | |
| 59 | Ms. Nidhi Srivastava | | |
| 60 | Ms. Anshika Malsaria | | |
| 61 | Mr. Neeraj Garg | | |
| 62 | Mr. Kanak Giri | | |
| 63 | Mr. Yogendra Gupta | | |
| 64 | Mr. Sushant Kumar | | |
| 65 | Ms. Richa Rawal | | |
| 66 | Ms. Sanju Choudhary | | |
| 67 | Ms. Poonam Varshney | | |
| 68 | Dr. Niketa Sharma | | |
| 69 | Ms. Ruchika Khandelwal | | |
| 70 | Ms. Kajal Mathur | | |
| 71 | Dr. Neha Janu | | |
| 72 | Ms. Sushila Bishnoi | | |
| 73 | Dr. Praveen Kumar Jain | | |
| 74 | Ms. Pooja Jain | | |
| 75 | Ms. Kavita Jain | | |
| 76 | Ms. Vijeta Khicha | | |
| 77 | Mr. Mehul Mahrishi | | |
| 78 | Mr. Gajanand Sharma | | |

Prof. (Dr.) Anil Chaudhary
Course Coordinator (FDP)

# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
## Faculty Development Program on
## "Internet of Things: Education Canvas"
## 09 November-20 November, 2019

**ATTENDANCE SHEET**                                    Date: 18.11.19

| SN | Name of Participant | Morning | Afternoon |
|----|---------------------|---------|-----------|
| 1 | Mr. Manish P. Bhelande | | |
| 2 | Ms. Bhargavi B. Dalal | | |
| 3 | Ms. Chhaya Narvekar | | |
| 4 | Dr. Vikas J. Dongre | | |
| 5 | Ms. Sushama Khanvilkar | | |
| 6 | Dr. Sukhwinder Sharma | | |
| 7 | Prof. Ajit S. Patil | | |
| 8 | Mr. Tanaji Bhauso Patil | | |
| 9 | Mr. Vadali Srinivas | | |
| 10 | Mr. Deepak Aggarwal | | |
| 11 | Dr. Raj Kumar Goel | | |
| 12 | Dr. Rajesh Eswarawaka | | |
| 13 | Mr. Vijaykumar Selvam | | |
| 14 | Mr. Narendrasinh B. Gohil | | |
| 15 | Mr. K. Venkatagurunatha Naidu | | |
| 16 | Dr. S. Rajasoundaran | | |
| 17 | Mr. P. Raghavan | | |
| 18 | Dr. Pooja Sapra | | |
| 19 | Dr. Manju Khari | | |
| 20 | Mr. Kshatriya Krishnakumar V. | | |
| 21 | Mr. K. Vijaya Kumar | | |
| 22 | Dr. Garima Srivastava | | |
| 23 | Mrs. G. Mangaiyarkarasi | | |
| 24 | Dr. Avinash Sharma | | |
| 25 | Mr. Krishan Kumar Prajapat | | |
| 26 | Mr. Kalu Ram Yadav | | |
| 27 | Dr. Dinesh Goyal | | |
| 28 | Dr. Ajay Khunteta | | |
| 29 | Dr. Linesh Raja | | |
| 30 | Dr. Vijander Singh | | |
| 31 | Mr. Sandeep Bhargava | | |
| 32 | Ms. Poonam Rajharia | | |
| 33 | Dr. Mukesh Arora | | |
| 34 | Ms. Pooja Choudhary | | |
| 35 | Ms. Manju Choudhary | | |
| 36 | Mr. Ankit Agrawal | | |
| 37 | Mr. Ajay Kumar Dhanopia | | |
| 38 | Dr. C. M. Choudhary | | |
| 39 | Mr. Mahender Kumar Beniwal | | |
| 40 | Mr. Sunil Dhankhar | | |

# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
## Faculty Development Program on
## "Internet of Things: Education Canvas"
### ATTENDANCE SHEET

Date: 18.11.19

| SN | Name of Participant | Morning | Afternoon |
|----|---------------------|---------|-----------|
| 41 | Ms. Anjana Sangwan | | |
| 42 | Mrs. Priyanka | | |
| 43 | Dr. Pankaj Dadheech | | |
| 44 | Dr. S. R. Dogiwal | | |
| 45 | Mr. Ankit Kumar | | |
| 46 | Mr. Kailash Soni | | |
| 47 | Mr. Naveen Jain | | |
| 48 | Mr. Vipin Jain | | |
| 49 | Ms. Neha Mathur | | |
| 50 | Mr. Harpreet Singh Gill | | |
| 51 | Ms. Rubal Deep Gill | | |
| 52 | Ms. Anjali Pandey | | |
| 53 | Ms. Dolly Mittal | | |
| 54 | Ms. Nikhar Bhatnagar | | |
| 55 | Ms. Palika Jajoo | | |
| 56 | Ms. Priyanka Sharma | | |
| 57 | Ms. Shalini Singhal | | |
| 58 | Dr. Sunita Gupta | | |
| 59 | Ms. Nidhi Srivastava | | |
| 60 | Ms. Anshika Malsaria | | |
| 61 | Mr. Neeraj Garg | | |
| 62 | Mr. Kanak Giri | | |
| 63 | Mr. Yogendra Gupta | | |
| 64 | Mr. Sushant Kumar | | |
| 65 | Ms. Richa Rawal | | |
| 66 | Ms. Sanju Choudhary | | |
| 67 | Ms. Poonam Varshney | | |
| 68 | Dr. Niketa Sharma | | |
| 69 | Ms. Ruchika Khandelwal | | |
| 70 | Ms. Kajal Mathur | | |
| 71 | Dr. Neha Janu | | |
| 72 | Ms. Sushila Bishnoi | | |
| 73 | Dr. Praveen Kumar Jain | | |
| 74 | Ms. Pooja Jain | | |
| 75 | Ms. Kavita Jain | | |
| 76 | Ms. Vijeta Khicha | | |
| 77 | Mr. Mehul Mahrishi | | |
| 78 | Mr. Gajanand Sharma | | |

Prof. (Dr.) Anil Chaudhary
Course Coordinator (FDP)

# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
## Faculty Development Program on
## "Internet of Things: Education Canvas"
## 09 November-20 November, 2019

**ATTENDANCE SHEET**  Date: 19.11.19

| SN | Name of Participant | Morning | Afternoon |
|----|---------------------|---------|-----------|
| 1 | Mr. Manish P. Bhelande | | |
| 2 | Ms. Bhargavi B. Dalal | | |
| 3 | Ms. Chhaya Narvekar | | |
| 4 | Dr. Vikas J. Dongre | | |
| 5 | Ms. Sushama Khanvilkar | | |
| 6 | Dr. Sukhwinder Sharma | | |
| 7 | Prof. Ajit S. Patil | | |
| 8 | Mr. Tanaji Bhauso Patil | | |
| 9 | Mr. Vadali Srinivas | | |
| 10 | Mr. Deepak Aggarwal | | |
| 11 | Dr. Raj Kumar Goel | | |
| 12 | Dr. Rajesh Eswarawaka | | |
| 13 | Mr. Vijaykumar Selvam | | |
| 14 | Mr. Narendrasinh B. Gohil | | |
| 15 | Mr. K. Venkatagurunatha Naidu | | |
| 16 | Dr. S. Rajasoundaran | | |
| 17 | Mr. P. Raghavan | | |
| 18 | Dr. Pooja Sapra | | |
| 19 | Dr. Manju Khari | | |
| 20 | Mr. Kshatriya Krishnakumar V. | | |
| 21 | Mr. K. Vijaya Kumar | | |
| 22 | Dr. Garima Srivastava | | |
| 23 | Mrs. G. Mangaiyarkarasi | | |
| 24 | Dr. Avinash Sharma | | |
| 25 | Mr. Krishan Kumar Prajapat | | |
| 26 | Mr. Kalu Ram Yadav | | |
| 27 | Dr. Dinesh Goyal | | |
| 28 | Dr. Ajay Khunteta | | |
| 29 | Dr. Linesh Raja | | |
| 30 | Dr. Vijander Singh | | |
| 31 | Mr. Sandeep Bhargava | | |
| 32 | Ms. Poonam Rajharia | | |
| 33 | Dr. Mukesh Arora | | |
| 34 | Ms. Pooja Choudhary | | |
| 35 | Ms. Manju Choudhary | | |
| 36 | Mr. Ankit Agrawal | | |
| 37 | Mr. Ajay Kumar Dhanopia | | |
| 38 | Dr. C. M. Choudhary | | |
| 39 | Mr. Mahender Kumar Beniwal | | |
| 40 | Mr. Sunil Dhankhar | | |

# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
## Faculty Development Program on
## "Internet of Things: Education Canvas"
### ATTENDANCE SHEET

Date: 19.11.19

| SN | Name of Participant | Morning | Afternoon |
|----|---------------------|---------|-----------|
| 41 | Ms. Anjana Sangwan | | |
| 42 | Mrs. Priyanka | | |
| 43 | Dr. Pankaj Dadheech | | |
| 44 | Dr. S. R. Dogiwal | | |
| 45 | Mr. Ankit Kumar | | |
| 46 | Mr. Kailash Soni | Kailash | Kailash |
| 47 | Mr. Naveen Jain | Naveen Jain | Naveen Jain |
| 48 | Mr. Vipin Jain | Vpm | Vpm |
| 49 | Ms. Neha Mathur | | |
| 50 | Mr. Harpreet Singh Gill | | |
| 51 | Ms. Rubal Deep Gill | | |
| 52 | Ms. Anjali Pandey | | |
| 53 | Ms. Dolly Mittal | | |
| 54 | Ms. Nikhar Bhatnagar | | |
| 55 | Ms. Palika Jajoo | | |
| 56 | Ms. Priyanka Sharma | | |
| 57 | Ms. Shalini Singhal | | |
| 58 | Dr. Sunita Gupta | | |
| 59 | Ms. Nidhi Srivastava | | |
| 60 | Ms. Anshika Malsaria | | |
| 61 | Mr. Neeraj Garg | | |
| 62 | Mr. Kanak Giri | | |
| 63 | Mr. Yogendra Gupta | | |
| 64 | Mr. Sushant Kumar | | |
| 65 | Ms. Richa Rawal | | |
| 66 | Ms. Sanju Choudhary | | |
| 67 | Ms. Poonam Varshney | | |
| 68 | Dr. Niketa Sharma | | |
| 69 | Ms. Ruchika Khandelwal | | |
| 70 | Ms. Kajal Mathur | | |
| 71 | Dr. Neha Janu | Neh | Neh |
| 72 | Ms. Sushila Bishnoi | | |
| 73 | Dr. Praveen Kumar Jain | Pmain | Pmain |
| 74 | Ms. Pooja Jain | | |
| 75 | Ms. Kavita Jain | | |
| 76 | Ms. Vijeta Khicha | | |
| 77 | Mr. Mehul Mahrishi | | |
| 78 | Mr. Gajanand Sharma | | |

Prof. (Dr.) Anil Chaudhary
Course Coordinator (FDP)

# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
## Faculty Development Program on
## "Internet of Things: Education Canvas"
### 09 November-20 November, 2019

**ATTENDANCE SHEET**

Date: 20.11.19

| SN | Name of Participant | Morning | Afternoon |
|----|---------------------|---------|-----------|
| 1 | Mr. Manish P. Bhelande | | |
| 2 | Ms. Bhargavi B. Dalal | | |
| 3 | Ms. Chhaya Narvekar | | |
| 4 | Dr. Vikas J. Dongre | | |
| 5 | Ms. Sushama Khanvilkar | | |
| 6 | Dr. Sukhwinder Sharma | | |
| 7 | Prof. Ajit S. Patil | | |
| 8 | Mr. Tanaji Bhauso Patil | | |
| 9 | Mr. Vadali Srinivas | | |
| 10 | Mr. Deepak Aggarwal | | |
| 11 | Dr. Raj Kumar Goel | | |
| 12 | Dr. Rajesh Eswarawaka | | |
| 13 | Mr. Vijaykumar Selvam | | |
| 14 | Mr. Narendrasinh B. Gohil | | |
| 15 | Mr. K. Venkatagurunatha Naidu | | |
| 16 | Dr. S. Rajasoundaran | | |
| 17 | Mr. P. Raghavan | | |
| 18 | Dr. Pooja Sapra | | |
| 19 | Dr. Manju Khari | | |
| 20 | Mr. Kshatriya Krishnakumar V. | | |
| 21 | Mr. K. Vijaya Kumar | | |
| 22 | Dr. Garima Srivastava | | |
| 23 | Mrs. G. Mangaiyarkarasi | | |
| 24 | Dr. Avinash Sharma | | |
| 25 | Mr. Krishan Kumar Prajapat | | |
| 26 | Mr. Kalu Ram Yadav | | |
| 27 | Dr. Dinesh Goyal | | |
| 28 | Dr. Ajay Khunteta | | |
| 29 | Dr. Linesh Raja | | |
| 30 | Dr. Vijander Singh | | |
| 31 | Mr. Sandeep Bhargava | | |
| 32 | Ms. Poonam Rajharia | | |
| 33 | Dr. Mukesh Arora | | |
| 34 | Ms. Pooja Choudhary | | |
| 35 | Ms. Manju Choudhary | | |
| 36 | Mr. Ankit Agrawal | | |
| 37 | Mr. Ajay Kumar Dhanopia | | |
| 38 | Dr. C. M. Choudhary | | |
| 39 | Mr. Mahender Kumar Beniwal | | |
| 40 | Mr. Sunil Dhankhar | | |

# Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

## AICTE Sponsored
## Faculty Development Program on
## "Internet of Things: Education Canvas"

### ATTENDANCE SHEET

Date: 20.11.19

| SN | Name of Participant | Morning | Afternoon |
|----|--------------------|---------|-----------|
| 41 | Ms. Anjana Sangwan | | |
| 42 | Mrs. Priyanka | | |
| 43 | Dr. Pankaj Dadheech | | |
| 44 | Dr. S. R. Dogiwal | | |
| 45 | Mr. Ankit Kumar | | |
| 46 | Mr. Kailash Soni | | |
| 47 | Mr. Naveen Jain | | |
| 48 | Mr. Vipin Jain | | |
| 49 | Ms. Neha Mathur | | |
| 50 | Mr. Harpreet Singh Gill | | |
| 51 | Ms. Rubal Deep Gill | | |
| 52 | Ms. Anjali Pandey | | |
| 53 | Ms. Dolly Mittal | | |
| 54 | Ms. Nikhar Bhatnagar | | |
| 55 | Ms. Palika Jajoo | | |
| 56 | Ms. Priyanka Sharma | | |
| 57 | Ms. Shalini Singhal | | |
| 58 | Dr. Sunita Gupta | | |
| 59 | Ms. Nidhi Srivastava | | |
| 60 | Ms. Anshika Malsaria | | |
| 61 | Mr. Neeraj Garg | | |
| 62 | Mr. Kanak Giri | | |
| 63 | Mr. Yogendra Gupta | | |
| 64 | Mr. Sushant Kumar | | |
| 65 | Ms. Richa Rawal | | |
| 66 | Ms. Sanju Choudhary | | |
| 67 | Ms. Poonam Varshney | | |
| 68 | Dr. Niketa Sharma | | |
| 69 | Ms. Ruchika Khandelwal | | |
| 70 | Ms. Kajal Mathur | | |
| 71 | Dr. Neha Janu | | |
| 72 | Ms. Sushila Bishnoi | | |
| 73 | Dr. Praveen Kumar Jain | | |
| 74 | Ms. Pooja Jain | | |
| 75 | Ms. Kavita Jain | | |
| 76 | Ms. Vijeta Khicha | | |
| 77 | Mr. Mehul Mahrishi | | |
| 78 | Mr. Gajanand Sharma | | |

Prof. (Dr.) Anil Chaudhary
Course Coordinator (FDP)

## 17. Attendance Sheet of ONLINE EXAM :-

AICTE Sponsored Faculty Development Program on "IoT: Education Canvas"_09th-20th November, 2019@SKIT Jaipur

Date: 16.11.19

**ATTENDANCE SHEET (Online Exam)**

| S.No. | Exam-ID | First Name | Last Name | Email | Mobile No | Signature |
|-------|---------|-----------|-----------|-------|-----------|-----------|
| 1 | 9619157881 | Mr. Manish | P. Bhelande | manish.bhelande@sakec.ac.in | 9619157881 | |
| 2 | 9819501957 | Ms.Bhargavi | B.Dalal | bhargavi.dalal@sakec.ac.in | 9819501957 | |
| 3 | 8097181363 | Ms. Chhaya | Narvekar | chhaya.n@xavierengg.com | 8097181363 | |
| 4 | 9370668979 | Dr. Vikas | J. Dongre | dongrevj1@gmail.com | 9370668979 | |
| 5 | 9930071534 | Ms. Sushama | Khanvilkar | sushama.k@xavierengg.com | 9930071534 | |
| 6 | 9914303090 | Dr. Sukhwinder | Sharma | sukhwinder.sharma@bbsbec.ac.in | 9914303090 | |
| 7 | 9404990967 | Prof. Ajit | S. Patil | ajitspatil@gmail.com | 9404990967 | |
| 8 | 9422811585 | Mr. Tanaji | Bhauso Patil | patiltanaji@gmail.com | 9422811585 | |
| 9 | 9296956735 | Mr.Vadali | Srinivas | cnu.vadali@kietgroup.com | 9296956735 | |
| 10 | 9855525215 | Mr.Deepak | Aggarwal | deepak.aggarwal@bbsbec.ac.in | 9855525215 | |
| 11 | 7011788700 | Dr.Raj | Kumar Goel | raj9921@yahoo.com | 7011788700 | |
| 12 | 9553202023 | Dr.Rajesh | Reddy Eswarawaka | rajeshemient@gmail.com | 9553202023 | |
| 13 | 9894209455 | Mr.Vijaykumar | Selvam | iidiand@gmail.com | 9894209455 | |
| 14 | 9974617967 | Mr Narendrasinh | B. Gohil | nbgohil1@gmail.com | 9974617967 | |
| 15 | 9030264588 | Mr.K. | Venkatagurumatha | venkatspmvv@gmail.com | 9030264588 | |
| 16 | 9025678818 | Dr.Mr.S. | Rajasoundaran | rajasoundaransraja@gmail.com | 9025678818 | |
| 17 | 9994524770 | Mr.P. | Raghavan | raghavan@psr.edu.in | 9994524770 | |
| 18 | 9582888389 | Dr.Pooja | Sapra | dr.poojasapra@gmail.com | 9582888389 | |
| 19 | 9899296110 | Dr.Manju | Khari | manjukhari@aiactr.ac.in | 9899296110 | |
| 20 | 9725933996 | Mr.Kshatriya | Krishnakumar V. | hod.electrical@amirajcollege.in | 9725933996 | |
| 21 | 8012897091 | Mr.K. | Vijaya Kumar | kvijayakumar@pec.edu | 8012897091 | |
| 22 | 8800916945 | Dr Garima | Srivastava | garima.shrivastav@gmail.com | 8800916945 | |
| 23 | 9952286644 | G. | Mangaiyarkarasi | mangamca2006@gmail.com | 9952286644 | |
| 24 | 8529286980 | Dr.Avinash | Sharma | asharma@mmumullana.org | 8529286980 | |
| 25 | 9414292624 | Mr.Krishan | Kumar Prajapat | kkprajapat@gmail.com | 9414292624 | |
| 26 | 9414624536 | Mr.Kalu | Ram Yadav | kr_yadav1@rediffmail.com | 9414624536 | |
| 27 | 9887678379 | Dr.Dinesh | Goyal | dinesh8dg@gmail.com | 9887678379 | |
| 28 | 9828596101 | Dr.Ajay | Khunteta | ajay_khunteta@rediffmail.com | 9828596101 | |
| 29 | 9460439419 | Dr.Linesh | Raja | lineshraja@gmail.com | 9460439419 | |
| 30 | 9414459235 | Dr.Vijander | Singh | vijan2005@gmail.com | 9414459235 | Vijander |
| 31 | 9829630099 | Dr.Mukesh | Arora | mukesharora@skit.ac.in | 9829630099 | |
| 32 | 9414305959 | Dr.C. | M. Choudhary | choudharychotnmal@gmail.com | 9414305959 | |
| 33 | 9694096634 | Mr Mahender | Kumar Beniwal | mbeniwal@gmail.com | 8739990083 | |
| 34 | 8739990083 | Mr.Sunil | Dhankhar | s2mdhankhar@gmail.com | 8739990083 | |
| 35 | 9413939111 | Ms.Anjana | Sangwan | sangwan.anjana@gmail.com | 9413939111 | |
| 36 | 7014475008 | Ms.Priyanka | P | trikhapriyanka@gmail.com | 7014475008 | Priyanka |
| 37 | 9887708973 | Dr.Pankaj | Dadheech | pankaj@skit.ac.in | 9887708973 | |
| 38 | 9829239060 | Dr.S. | R. Dogiwal | dogiwal@gmail.com | 9829239060 | |
| 39 | 9057836398 | Mr.Ankit | Kumar | iiita.ankit@gmail.com | 9057836398 | |
| 40 | 9460066186 | Mr.Kailash | Soni | kailash100nier@gmail.com | 9460066186 | Kailash |
| 41 | 9928795887 | Mr.Naveen | Jain | naveen@skit.ac.in | 9928795887 | Naveen |
| 42 | 7665028925 | Mr.Vipin | Jain | vipin@skit.ac.in | 7665028925 | Vipin |
| 43 | 9460553722 | Ms.Neha | Mathur | nmdcll@gmail.com | 9460553722 | |
| 44 | 9462694625 | Mr.Harpreet | Singh Gill | harpreet@skit.ac.in | 9462694625 | |
| 45 | 9887441103 | Ms.Rubal | Deep Gill | rubal@skit.ac.in | 9887441103 | |
| 46 | 9414330982 | Ms.Anjali | Pandey | njl27pandey@gmail.com | 9414330982 | |
| 47 | 9829408543 | Ms.Dolly | Mittal | dolly5987@gmail.com | 9829408543 | |
| 48 | 8875027276 | Ms.Nikhar | Bhatnagar | nikharbhatnagar@gmail.com | 8875027276 | |
| 49 | 9414499507 | Ms.Palika | Jajoo | palikajajoo@gmail.com | 9414499507 | |
| 50 | 8890606912 | Ms Priyanka | Sharma | priyanka0829@gmail.com | 8890606912 | |
| 51 | 8952979529 | Ms.Shalini | Singhal | singhalshalini570@gmail.com | 8952979529 | |
| 52 | 9828510686 | Dr.Sunita | Gupta | drsunitagupta2016@gmail.com | 9828510686 | |
| 53 | 9079925707 | Ms.Nidhi | Srivastava | nidhi03.srivastav@gmail.com | 9079925707 | |
| 54 | 9828128665 | Ms.Anshika | Malsaria | anshika1987@gmail.com | 9828128665 | |
| 55 | 7665523458 | Mr.Neeraj | Garg | ng23neeraj.garg@gmail.com | 7665523458 | |
| 56 | 9413402383 | Mr.Kanak | Giri | kanakgiri88@gmail.com | 9413402383 | |
| 57 | 9468739571 | Mr.Yogendra | Gupta | yogen.571@gmail.com | 9468739571 | |
| 58 | 7229935038 | Mr.Sushant | Kumar | skybvi@gmail.com | 7229935038 | |
| 59 | 9413080805 | Ms.Richa | Rawal | richarawal08@gmail.com | 9413080805 | |
| 60 | 9983918945 | Ms Sanju | Choudhary | sanju.jangir@gmail.com | 9983918945 | |
| 61 | 9413238729 | Ms.Poonam | Varshney | varshney.poonam@gmail.com | 9413238729 | |
| 62 | 7014128907 | Dr Niketa | Sharma | niketasea@gmail.com | 7014128907 | |
| 63 | 9828124477 | Ms Ruchika | Khandelwal | ruchikakhandelwal77@gmail.com | 9828124477 | |
| 64 | 9461400822 | Ms.Kajal | Mathur | kaju.mathur@gmail.com | 9461400822 | |
| 65 | 9414438907 | Dr.Neha | Janu | neha123janu@gmail.com | 9414438907 | Neha |
| 66 | 9214419555 | Ms.Sushila | Bishnoi | bishnoisushi@gmail.com | 9214419555 | |
| 67 | 9928909235 | Mr.Ajay | Kumar Dhanopia | ajaydhanopia123@gmail.com | 9928909235 | |

| S.No. | Exam-ID | First Name | Last Name | Email | Mobile No | Signature |
|---|---|---|---|---|---|---|
| | | | | AICTE Sponsored Faculty Development Program on "IoT: Education Canvas"_09th-20th November, 2019@SKIT Jaipur | | |
| | | | | ATTENDANCE SHEET (Online Exam) | | Date: 16.11.19 |
| 68 | 6378709334 | Ms.Poonam | Rajharia | poonam.rajharia@vgu.ac.in | 6378709334 | |
| 69 | 8875140140 | Ms.Pooja | Choudhary | poojachoudhary87@gmail.com | 8875140140 | |
| 70 | 8118864109 | Mr.Sandeep | Bhargava | eng.san.83.sandy@gmail.com | 8118864109 | |
| 71 | 9694724109 | Ms.Manju | Choudhary | manjuchoudhary_mec@yahoo.co.in | 9694724109 | |
| 72 | 7877556914 | Mr.Ankit | Agrawal | ankitsagarwal@gmail.com | 7877556914 | |
| 73 | 9928652224 | Dr.Praveen | Kumar Jain | praveenjain.spsl@gmail.com | 9928652224 | |
| 74 | 9785050506 | Ms.Pooja | Jain | poojajain624@gmail.com | 9785050506 | |
| 75 | 9461011668 | Ms.Kavita | Jain | kjkavitajain.21@gmail.com | 9461011668 | |
| 76 | 9509309701 | Ms.Vijeta | Khicha | vijetakhicha@skit.ac.in | 9509309701 | |
| 77 | 7597924279 | Mr.Mehul | Mahrishi | mehul.aqua@gmail.com | 7597924279 | |
| 78 | 9887566000 | Mr.Gajanand | Sharma | gajanan.sharma@gmail.com | 9887566000 | |

Prof. (Dr.) Anil Chaudhary
Course Coordinator (FDP)

## 18. Result of FDP online test

| SKIT | | | |
|---|---|---|---|
| **Resultof FDP IoT Quiz-2019** | | | |
| **Department Name: Information Technology** | | **OnlineTest** | |
| **Paper Name: FDP IoT Quiz-2019** | | **Total Marks=48** | **Date: 16.11.2019** |
| **Faculty Id** | **Faculty Name** | **MarksObtained** | **Remarks** |
| 9619157881 | Mr. Manish P. Bhelande | 34 | OK |
| 9819501957 | Ms.BhargaviB.Dalal | 32 | OK |
| 8097181363 | Ms. ChhayaNarvekar | 29 | OK |
| 9370668979 | Dr. Vikas J. Dongre | 35 | OK |
| 9930071534 | Ms. SushamaKhanvilkar | 33 | OK |
| 9914303090 | Dr. Sukhwinder Sharma | 31 | OK |
| 9404990967 | Prof. Ajit S. Patil | 35 | OK |
| 9422811585 | Mr. TanajiBhausoPatil | 37 | OK |
| 9296956735 | Mr.VadaliSrinivas | 32 | OK |
| 9855525215 | Mr.Deepak Aggarwal | 34 | OK |
| 7011788700 | Dr.Raj Kumar Goel | 34 | OK |
| 9553202023 | Dr.Rajesh Reddy Eswarawaka | 31 | OK |
| 9894209455 | Mr.VijaykumarSelvam | 31 | OK |
| 9974617967 | Mr.Narendrasinh B. Gohil | 29 | OK |
| 9030264588 | Mr.K. Venkatagurunatha Naidu | 39 | OK |
| 9025678818 | Dr.Mr.S. Rajasoundaran | 28 | OK |
| 9994524770 | Mr.P. Raghavan | 32 | OK |
| 9582888389 | Dr.PoojaSapra | 39 | OK |
| 9899296110 | Dr.Manju Khari | 22 | OK |
| 9725933996 | Mr.Kshatriya Krishnakumar V. | 43 | OK |
| 8012897091 | Mr.K. Vijaya Kumar | 30 | OK |
| 8800916945 | Dr.Garima Srivastava | 27 | OK |
| 9952286644 | G. Mangaiyarkarasi | 31 | OK |
| 8529286980 | Dr.Avinash Sharma | 21 | OK |

| | | | |
|---|---|---|---|
| 9414292624 | Mr.Krishan Kumar Prajapat | 29 | OK |
| 9414624536 | Mr.Kalu Ram Yadav | 33 | OK |
| 9887678379 | Dr.DineshGoyal | 41 | OK |
| 9828596101 | Dr.Ajay Khunteta | 35 | OK |
| 9460439419 | Dr.Linesh Raja | 37 | OK |
| 9414459235 | Dr.Vijander Singh | 35 | OK |
| 9829630099 | Dr.Mukesh Arora | 37 | OK |
| 9414305959 | Dr.C. M. Choudhary | 35 | OK |
| 969409634 | Mr.MahenderKumar Beniwal | 36 | OK |
| 8739990083 | Mr.Sunil Dhankhar | 35 | OK |
| 9413939111 | Ms.AnjanaSangwan | 42 | OK |
| 7014475008 | Ms.Priyanka P | 41 | OK |
| 9887708973 | Dr.Pankaj Dadheech | 39 | OK |
| 9829239060 | Dr.S. R. Dogiwal | 40 | OK |
| 9057836398 | Mr.Ankit Kumar | 42 | OK |
| 9460066186 | Mr.KailashSoni | 41 | OK |
| 9928795887 | Mr.Naveen Jain | 39 | OK |
| 7665028925 | Mr.Vipin Jain | 39 | OK |
| 9460553722 | Ms.NehaMathur | 40 | OK |
| 9462694625 | Mr.Harpreet Singh Gill | 45 | OK |
| 9887441103 | Ms.Rubal Deep Gill | 45 | OK |
| 9414330982 | Ms.Anjali Pandey | 42 | OK |
| 9829408543 | Ms.Dolly Mittal | 38 | OK |
| 8875027276 | Ms.NikharBhatnagar | 41 | OK |
| 9414499507 | Ms.PalikaJajoo | 37 | OK |
| 8890606912 | Ms.Priyanka Sharma | 42 | OK |
| 8952979529 | Ms.ShaliniSinghal | 38 | OK |
| 9828510686 | Dr.Sunita Gupta | 30 | OK |
| 9079925707 | Ms.Nidhi Srivastava | 32 | OK |
| 9828128665 | Ms.AnshikaMalsaria | 39 | OK |
| 7665523458 | Mr.NeerajGarg | 36 | OK |

| | | | |
|---|---|---|---|
| 9413402383 | Mr.KanakGiri | 37 | OK |
| 9468739571 | Mr.Yogendra Gupta | 37 | OK |
| 7229935038 | Mr.Sushant Kumar | 35 | OK |
| 9413080805 | Ms.RichaRawal | 36 | OK |
| 9983918945 | Ms.SanjuChoudhary | 35 | OK |
| 9413238729 | Ms.PoonamVarshney | 38 | OK |
| 7014128907 | Dr.Niketa Sharma | 33 | OK |
| 9828124477 | Ms.RuchikaKhandelwal | 35 | OK |
| 9461400822 | Ms.KajalMathur | 30 | OK |
| 9414438907 | Dr.NehaJanu | 41 | OK |
| 9214419555 | Ms.SushilaBishnoi | 42 | OK |
| 9928909235 | Mr.Ajay Kumar Dhanopia | 25 | OK |
| 6378709334 | Ms.PoonamRajharia | 34 | OK |
| 8875140140 | Ms.PoojaChoudhary | 40 | OK |
| 8118864109 | Mr.Sandeep Bhargava | 39 | OK |
| 9694724109 | Ms.ManjuChoudhary | 40 | OK |
| 7877556914 | Mr.Ankit Agrawal | 37 | OK |
| 9928652224 | Dr.Praveen Kumar Jain | 35 | OK |
| 9785050506 | Ms.Pooja Jain | 34 | OK |
| 9461011668 | Ms.Kavita Jain | 38 | OK |
| 9509309701 | Ms.VijetaKhicha | 37 | OK |
| 7597924279 | Mr.MehulMahrishi | 43 | OK |
| 9887566000 | Mr.Gajanand Sharma | 31 | OK |

Total No of Faculties: 78

Total Absent Faculties: NIL

Total Present Faculties: 78

Course Coordinator:
Prof.Anil Chaudhary

## 18. News/Media:-



SKIT College organised a two-week faculty development program on 'Internet of Things- Education Canvas', and a two-day conference on 'Communication and Intelligent Systems'.

First India
16-11-19

# 'इंटरनेट ऑफथिंग्सः एजुकेशन कनवास' का हुआ समापन

जयपुर ( का.सं. )। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलोजी, मैनेजमेंट एवं ग्रामोत्थान, जयपुर में दो सप्ताह तक चले एआईसीटी द्वारा प्रायोजित फैकल्टी डेवलपमन्ट प्रोग्राम 'इंटरनेट ऑफ थिंग्स: एजुकेशन कनवास' का समापन बुधवार को हुआ। इससे पूर्व 9 नवम्बर को शुरू हुए कार्यक्रम का शुभारम्भ मुख्य अतिथि डॉ. आर ए गुप्ता (वीसीएआरटीयू) द्वारा किया गया था। डॉ. धीरेन्द्र माथुर (टीक्यूआईटी कॉर्डिनेटर, आरटीयू) ने भी विचार प्रकट किए।

इस प्रोग्राम में विभिन्न विद्यालयों से 70-80 तकनीकी शिक्षकों ने शिरकत की। 9 से 11 नवम्बर तक डा मनी मधुकर ने डीप लर्निंग, बिग डाटा हैंडलिंग एवं आर प्रोग्रामिंग के कॉन्सेप्ट एवं इंप्लीमेंटेशन को समझाया। 12 से 13 नवम्बर तक ईशान वैद ने केस स्टडी के साथ बिग डाटा एवं मशीन लर्निंग के डाटा की प्रोसेसिंग एवं



घरेलू वस्तुओं के ऑटोमेशन कैसे करें, उसे प्रयोग के साथ बताया। 14 नवम्बर को पीयूष महर्षि ने इसी को आगे डिटेल में विशेषज्ञता के साथ बताया।

15 से 16 नवम्बर तक डा. बसंत अग्रवाल, डा. पूनम गेरा एवं दिवेश माथुर ने बिग डाटा कॉन्सेप्ट, मशीन लरनिंग फ्रीटायर, डब्लयू एसए एव विजुअलाइजशन एवं हार्डवेयर इंटरफेस करके इन्हे

ऑटोमाइजेशन में कैसे काम लें, इसमें अपने विशेषज्ञ विचार प्रस्तुत किए। 18 से 19 नवम्बर तक डा सोमाबाबू गुनिथी ने आईओटी के फील्ड में आने वाले चैलेंज एवं उनके पॉसिबल सोल्यूशन के बारे में विद्यार्थियों को अवगत कराया। प्रमोद गौर ने 20 नवम्बर को क्रिप्टोग्राफी एवं ब्लॉकचैन के कॉन्सेप्ट के साथ इस शैक्षणिक कार्य की समाप्ति की।

**सीमा सन्देश** Thu, 21 November 2019
https://www.readwhere.com/read/c/46039004

# Two-week faculty development event organised at SKIT

HT Correspondent
hhraj@hotline.com

JAIPUR: Swami Keshvanand Institute of Technology management and Gramothan (SKIT) organised a two-week AICTE-sponsored faculty development programme on 'Internet of Things: Education Canvas' and two-day RTU-sponsored internal conference on 'Communication and Intelligent Systems'.

RTU vice chancellor Prof RA Gupta was the guest of honour at the event. Sikkim National Institute of Technology director Prof MC Govil was the special guest; Prof J C Bansal from South East Asian University in Delhi; SKIT chairman Surjaram Meel, registrar Rachna Meel, director Jaipal Meel, head of IT department Prof Anil Choudhary and head of computer science department Prof Mukesh Gupta were also present.

The RTU vice chancellor said that the technical university is now emphasising heavily on real work research and improvement on technical education. Prof Govil and Prof Bansal also presented their talk on the subject.

Dr Mani Madhukar (program manager, IBM) in his motivational talk indicated that India needs a lot of work to be done on IoT infrastructure and internet connectivity on agricultural land. He said that 5G services will provide big opportunity to all startups and others in the field of IoT to speed up their work in various applications.

**Hindustan Times**
**15-11-19**

**19. Glimpses of FDP:-**



A Two Week AICTE Sponsored Faculty Development Program on "Internet of Things: Education Canvas" (09th-20th November, 2019)

Department of Information Technology (NBA Accredited)
Swami Keshvanand Institute of Technology, Management & Gramothan
Ramnagaria, Jagatpura, Jaipur-302017

## 20. Feedback of Participants:-

### Feedback Form (FDP-19)
AICTE Sponsored Faculty Development Programme
on
"INTERNET OF THINGS: EDUCATION CANVAS"
09th to 20th November, 2019
Organized by
Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

*Kindly provide us your valuable feedback about the course (10 is the highest grade).*

1. Your experience about the course.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | (9) | 10 |
|---|---|---|---|---|---|---|---|---|---|

2. Knowledge enhancement.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | (9) | 10 |
|---|---|---|---|---|---|---|---|---|---|

3. Relevancy of topics.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | (8) | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|

4. About speakers.

| | 2 | 3 | 4 | 5 | 6 | 7 | (8) | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|

5. General Arrangement.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | (10) |
|---|---|---|---|---|---|---|---|---|---|

6. Food quality, transportation facility and lodging.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | (10) |
|---|---|---|---|---|---|---|---|---|---|

7. In future you want to attend such course at this Institute (SKIT)

(Yes)      No

If NO then why ........

Please mention your preferred location/Institute for such course.... SKIT Jaipur

8. Topic that can be covered in the next conference?

........

9. Knowledge gain by the course

It was very useful. Got handson knowledge of different sensors & controller & its programming

10. Overall experience of the course.

It was excellent.

11. Suggestions

Daily labs work for handson experience.

Note: Name & Signature of the participant is not required.

# Feedback Form (FDP-19)

AICTE Sponsored Faculty Development Programme

on

## "INTERNET OF THINGS: EDUCATION CANVAS"

09th to 20th November, 2019

Organized by

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

*Kindly provide us your valuable feedback about the course (10 is the highest grade).*

1. Your experience about the course.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 ✓ | 10 |
|---|---|---|---|---|---|---|---|---|---|

2. Knowledge enhancement.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 ✓ | 10 |
|---|---|---|---|---|---|---|---|---|---|

3. Relevancy of topics.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 ✓ | 9 |
|---|---|---|---|---|---|---|---|---|

4. About speakers.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 ✓ |
|---|---|---|---|---|---|---|---|---|

5. General Arrangement.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ✓ |
|---|---|---|---|---|---|---|---|---|---|

6. Food quality, transportation facility and lodging.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ✓ |
|---|---|---|---|---|---|---|---|---|---|

7. In future you want to attend such course at this Institute (SKIT):

| Yes ✓ | No |
|---|---|

If NO then why ...........................................................................

Please mention your preferred location/Institute for such course: SKIT

8. Topic that can be covered in the next conference?
   Blockchain & Data Science

9. Knowledge gain by the course:
   IoT & Security Aspeck on Education Canvas

10. Overall experience of the course.
    Good

11. Suggestions:
    Arrangement had been good

Note. Name & Signature of the participant is not required.

Ar

# Feedback Form (FDP-19)

AICTE Sponsored Faculty Development Programme

on

## "INTERNET OF THINGS: EDUCATION CANVAS"

09th to 20th November, 2019

Organized by

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

*Kindly provide us your valuable feedback about the course (10 is the highest grade).*

1. Your experience about the course.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ✓ |
|---|---|---|---|---|---|---|---|---|---|

2. Knowledge enhancement.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ✓ |
|---|---|---|---|---|---|---|---|---|---|

3. Relevancy of topics.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ✓ |
|---|---|---|---|---|---|---|---|---|---|

4. About speakers.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 ✓ | 10 |
|---|---|---|---|---|---|---|---|---|---|

5. General Arrangement.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ✓ |
|---|---|---|---|---|---|---|---|---|---|

6. Food quality, transportation facility and lodging.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ✓ |
|---|---|---|---|---|---|---|---|---|---|

7. In future you want to attend such course at this Institute (SKIT)

| Yes ✓ | No |
|---|---|

If NO then why ...............................................................
Please mention your preferred location/Institute for such course...............

8. Topic that can be covered in the next conference?
...Any topic which covers Electronics hands on...

9. Knowledge gain by the course.
...IBM Watson, AWS, Azure, eNodemav, Nodejs, etc...

10. Overall experience of the course.
..Excellent...

11. Suggestions
..............................................................................

Note: Name & Signature of the participant is not required.

(N.D. Gohil)

# Feedback Form (FDP-19)

AICTE Sponsored Faculty Development Programme

on

"INTERNET OF THINGS: EDUCATION CANVAS"

09th to 20th November, 2019

Organized by

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

*Kindly provide us your valuable feedback about the course (10 is the highest grade).*

1. Your experience about the course.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 ✓ | 10 |
|---|---|---|---|---|---|---|---|---|---|

2. Knowledge enhancement.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 ✓ | 10 |
|---|---|---|---|---|---|---|---|---|---|

3. Relevancy of topics.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 ✓ | 10 |
|---|---|---|---|---|---|---|---|---|---|

4. About speakers

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 ✓ | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|

5. General Arrangement

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ✓ |
|---|---|---|---|---|---|---|---|---|---|

6. Food quality, transportation facility and lodging

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ✓ |
|---|---|---|---|---|---|---|---|---|---|

7. In future you want to attend such course at this Institute (SKIT)

Yes ✓   No

If NO then why ...........................................................

Please mention your preferred location/Institute for such course ...........

8. Topic that can be covered in the next conference?

Application of IOT and Research oriented challenges

9. Knowledge gain by the course.

Cloud computing and IOT

10. Overall experience of the course.

Nice organization, structure of course and well managed by the faculties and organizer.

11. Suggestions

keep it up

Note: Name & Signature of the participant is not required.

Manju Khars

# Feedback Form (FDP-19)

AICTE Sponsored Faculty Development Programme

on

"INTERNET OF THINGS: EDUCATION CANVAS"

09th to 20th November, 2019

Organized by

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

*Kindly provide us your valuable feedback about the course (10 is the highest grade).*

1. Your experience about the course.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 ✓ | 10 |
|---|---|---|---|---|---|---|---|---|---|

2. Knowledge enhancement.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 ✓ | 10 |
|---|---|---|---|---|---|---|---|---|---|

3. Relevancy of topics.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 ✓ | 10 |
|---|---|---|---|---|---|---|---|---|---|

4. About speakers.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 ✓ | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|

5. General Arrangement.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ✓ |
|---|---|---|---|---|---|---|---|---|---|

6. Food quality, transportation facility and lodging.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ✓ |
|---|---|---|---|---|---|---|---|---|---|

7. In future you want to attend such course at this Institute (SKIT)

| Yes ✓ | No |
|---|---|

If NO then why ......................................................

Please mention your preferred location/Institute for such course. ...............

8. Topic that can be covered in the next conference?

   web of things, Internet of vehicals and more challangs

9. Knowledge gain by the course:

   IOT & cloud computing

10. Overall experience of the course.

   faculties & staff, and are verry cooprative and helpfull and F.D.P. was organised so well

11. Suggestions

   keep it up

Note: Name & Signature of the participant is not required.

Garima Srivastava